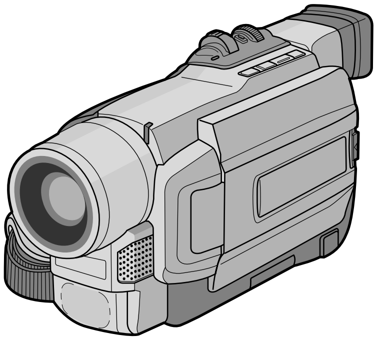
JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DVL140EG,157EG/EK,257EK



Mini DV PAL

Regarding service information other than these sections, refer to the GR-DVL150EG Additional edition service manual (No. 86613B).
Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DVL150,257,355,357,555,557)*

Camcorder

For General

Power supply	: DC 11.0 V ⎓ (Using AC Adapter) DC 7.2 V ⎓ (Using battery pack)
Power consumption	
LCD monitor off, viewfinder on	: Approx. 4.3 W
LCD monitor on, viewfinder off	: Approx. 5.3 W
Video light	: Approx. 3.5 W
Dimensions (W x H x D)	: 83 mm x 97 mm x 188 mm (with the LCD monitor closed and the viewfinder pushed down)
Weight	: Approx. 610 g (GR-DVL557/DVL555) Approx. 600 g (GR-DVL257) Approx. 590 g (GR-DVL357/DVL355/DVL150)
Operating temperature	: 0°C to 40°C
Operating humidity	: 35% to 80%
Storage temperature	: –20°C to 50°C
Pickup	: 1/4" CCD
Lens	: F 1.8, f = 3.6 mm to 36 mm, 10:1 power zoom lens
Filter diameter	: ø37 mm
LCD monitor	: 3.5" diagonally measured, LCD panel/TFT active matrix system (GR-DVL557/DVL555) 3" diagonally measured, LCD panel/TFT active matrix system (GR-DVL257) 2.5" diagonally measured, LCD panel/TFT active matrix system (GR-DVL357/DVL355/DVL150)
Viewfinder	: Electronic viewfinder with 0.44" colour LCD (GR-DVL555) Electronic viewfinder with 0.24" black/white LCD (GR-DVL557/DVL357/DVL355/DVL257/DVL150)
Speaker	: Monaural

For Digital Video Camera

Format	: DV format (SD mode)
Signal format	: PAL standard
Recording/Playback format	: Video: Digital component recording : Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette	: Mini DV cassette
Tape speed	: SP: 18.8 mm/s LP: 12.5 mm/s
Maximum recording time (using 80 min. cassette)	: SP: 80 min. LP: 120 min.

For Digital Still Camera (GR-DVL557/DVL555/DVL357/DVL355 only)

Storage media	: SD Memory Card/MultiMediaCard
Compression system	: JPEG (compatible)
File size	: VGA (640 x 480 pixels)
Picture quality	: 2 modes (FINE/STANDARD)
Approximate number of storable images	
with memory card [8 MB] (provided)	
FINE	: 100
STANDARD	: 200
with memory card [16 MB] (optional)	
FINE	: 200
STANDARD	: 400
with memory card [32 MB] (optional)	
FINE	: 400
STANDARD	: 800
with memory card [64 MB] (optional)	
FINE	: 800
STANDARD	: 1600

For Connectors

S-Video	
Output	: Y : 1 V (p-p), 75 Ω, analogue C : 0.29 V (p-p), 75 Ω, analogue
AV	
Video output	: 1 V (p-p), 75 Ω, analogue
Audio output	: 300 mV (rms), 1 kΩ, analogue, stereo
DV	
Output	: 4-pin, IEEE 1394 compliant
Input (GR-DVL557/DVL357/DVL257 only)	: 4-pin, IEEE 1394 compliant
USB (GR-DVL557/DVL555/DVL357/DVL355 only)	: 5-pin
PC (DIGITAL PHOTO) (GR-DVL257/DVL150 only)	: ø2.5 mm, 3-pole
EDIT (GR-DVL557/DVL555/DVL357/DVL355 only)	: ø3.5 mm, 2-pole
JLIP (GR-DVL257/DVL150 only)	: ø3.5 mm, 4-pole

AC adapter AP-V10EG

Power requirement	: AC 110 V to 240 V∿, 50 Hz/60 Hz
Output	: DC 11 V⎓, 1 A
Dimensions (W x H x D)	: 59 mm x 31 mm x 84 mm
Weight	: Approx. 140 g (not including Power Cord)

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

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No. 86620
April 2001

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5.2 FINAL ASSEMBLY <M2> 5-3
5.3 MONITOR ASSEMBLY <M5> 5-6

The following table indicate main different points between models GR-DVL150EG, GR-DVL140EG, GR-DVL157EG, GR-DVL157EK and GR-DVL257EK.

MODEL ITEM	GR-DVL150EG	GR-DVL140EG	GR-DVL157EG	GR-DVL157EK	GR-DVL257EK
LCD MONITOR	2.5"	←	←	←	3.0"
VIDEO LIGHT	Used	Not used	Used	←	←
AC ADAPTER	AP-V10EG	←	←	AP-V10EK	←
REMOTE CONTROL	Provided	Optional	Provided	←	←

The following table indicate different parts number between models GR-DVL150EG, GR-DVL140EG, GR-DVL157EG, GR-DVL157EK and GR-DVL257EK.

PACKING AND ACCESSORY ASSEMBLY <M1> Note: As for IB (INSTRUCTIONS), refer to sec.5.

⚠ REF. NO	MODEL ITEM	GR-DVL150EG	GR-DVL140EG	GR-DVL157EG	GR-DVL157EK	GR-DVL257EK
1	PACKING CASE	LY32095-003A	←	LY32095-007A	←	LY32095-001A
4	POLY BAG	QPA02003006	←	←	YQM30061-3	QPA02003006
7	SHEET(AGREMENT)	—	—	LYT0378-003A	←	←
8	Q.CARD(JUK)	—	—	—	LYT0194-001B	←
9	WARRANTY CARD	BT-54013-2	←	←	BT-54008-2	←
10	SHEET(CORR)	—	LYT0747-008A	—	—	—
11	CD ROM	—	—	LY32210-002B	←	←
17	REMOTE CONTROL UNIT	LY20750-001A	—	LY20750-001A	←	←
18	BATTERY,X2	AAA(R03)	—	AAA(R03)	←	←
23	CABLE ASSY	PEAC0428-150	—	QAM0214-001	←	←
⚠ 25	POWER CORD	QMPS120-190-JR	←	←	QMPS110-190-JR	←
31	PC CABLE	—	—	QAM0084-001	←	←
32	CORE FILTER	—	—	QQR0491-002	←	←

FINAL ASSEMBLY <M2>

⚠ REF. NO	MODEL ITEM	GR-DVL150EG	GR-DVL140EG	GR-DVL157EG	GR-DVL157EK	GR-DVL257EK
115	UPPER CASE ASSY	LY20707-003C	LY20707-011A	LY20707-003C	←	LY20717-003C
⚠ 130	FRONT COVER ASSY	LY20711-003A	LY20711-004A	LY20711-003A	←	←
130A	HOOD	LY32111-002A	LY32111-003A	LY32111-002A	←	←
132	DC LIGHT ASSY	LY31617-002A	—	LY31617-002A	←	←
132A	LAMP	YQ44266	—	YQ44266	←	←
136	STICKER(TOP)	LY43093-003A	LY43093-002A	LY43093-009A	←	LY43093-010A
137	STICKER(SIDE)	LY43094-002A	←	LY43094-001A	←	←
139	COVER(LIGHT)	—	LY31660-003A	—	—	—
158	SPECIAL SCREW,X2	LY30018-0D6A	LY30018-090A	LY30018-0D6A	←	←
196	BRACKET(OP)ASSY	LY42846-001C	LY42846-001A	LY42846-001C	←	←

MONITOR ASSEMBLY <M5>

⚠ REF. NO	MODEL ITEM	GR-DVL150EG	GR-DVL140EG	GR-DVL157EG	GR-DVL157EK	GR-DVL257EK
⚠ 500	MONITOR ASSY	LYH20246-008B	LYH20246-015A	LYH20246-008B	←	LYH20246-009A
⚠ 501	MONITOR COVER ASSY	LY20702-002B	←	←	←	LY20721-003A
501D	SPECIAL SCREW,X2	LY30018-084A	←	←	←	LY30018-011A
501E	SHEET(MON)	—	—	—	—	LY42368-001A
501H	WINDOW	LY32087-001B	←	←	←	LY32121-003A
501J	EARTH MON	—	—	—	—	LY42386-001A
501K	EL(WINDOW)	—	—	—	—	LY42193-001A
502	MONITOR CASE ASSY	LY10264-001A	←	←	←	LY20598-002A
502A	EARTH MON(2)	—	—	—	—	LY42388-001A
503	HOLDER	LY20674-001A	←	←	←	LY20567-001A
508	BACK LIGHT	QLL0093-001	←	←	←	QLL0081-001
509	LCD MODULE	QLD0154-001	←	←	←	QLD0096-002
516	HOLDER	—	—	—	—	LY20566-001B

Notes : Mark — is not used.
Mark ← is same as left.

MAIN BOARD ASSEMBLY <01>

⚠ REF. NO	MODEL ITEM	GR-DVL150EG	GR-DVL140EG	GR-DVL157EG	GR-DVL157EK	GR-DVL257EK
PW	MAIN BOARD ASSY	YB10313PA-03	YB10330PB-01	YB10330PA-01	←—	←—
IC1403	IC(DIGITAL)	—	TC7W53FU	—	—	—
Q6207	TRANSISTOR	2SD1621/TU/-X	—	2SD1621/TU/-X	←—	←—
Q6217	PAIR TRANSISTOR	UMZ1N	—	UMZ1N	←—	←—
R1410	MG RESISTOR	—	NRSA6AJ-331W	—	—	—
R1411	MG RESISTOR	—	NRSA6AJ-473W	—	—	—
R1412	MG RESISTOR	—	NRSA6AJ-331W	—	—	—
R1413	MG RESISTOR	NRSA6AJ-331W	—	NRSA6AJ-331W	←—	←—
R6014	MG RESISTOR	NRSA63J-0R0X	—	NRSA63J-0R0X	←—	←—
R6217	MG RESISTOR	NRSA6AJ-151W	—	NRSA6AJ-151W	←—	←—
R6218	MG RESISTOR	NRSA6AJ-104W	—	NRSA6AJ-104W	←—	←—
R6242	MG RESISTOR	NRSA6AJ-104W	—	NRSA6AJ-104W	←—	←—
R6243	MG RESISTOR	NRSA6AJ-823W	—	NRSA6AJ-823W	←—	←—
R6244	MG RESISTOR	NRSA6AJ-152W	—	NRSA6AJ-152W	←—	←—
R6245	MG RESISTOR	NRSA6AJ-562W	—	NRSA6AJ-562W	←—	←—
R6246	MG RESISTOR	NRSA6AJ-222W	—	NRSA6AJ-222W	←—	←—
C6213	CAPACITOR	NCB11EK-105X	—	NCB11EK-105X	←—	←—
L6205	COIL	NQL35BK-100X	—	NQL35BK-100X	←—	←—
X3001	CRYSTAL RESONATOR	NAX0480-001X	NAX0206-001X	NAX0480-001X	←—	←—
S6001	SLIDE SWITCH	—	NSW0096-001X	—	—	—

MONITOR BOARD ASSEMBLY <02>

⚠ REF. NO	MODEL ITEM	GR-DVL150EG	GR-DVL140EG	GR-DVL157EG	GR-DVL157EK	GR-DVL257EK
PW1	MONITOR BOARD ASSY	YB10326I1-01	YB10324P1-01	YB10326I-01	←—	YB10324J-03
Q7605	DIGI TRANSISTOR	—	—	—	—	DTA144EE
Q7606	DIGI TRANSISTOR	—	—	—	—	DTA144EE
R2	MG RESISTOR	NRSA63J-103X	—	NRSA63J-103X	←—	←—
R7612	MG RESISTOR	NRVA63D-223X	NRVA63D-682X	NRVA63D-223X	←—	NRVA63D-682X
R7621	MG RESISTOR	NRSA63J-0R0X	←—	←—	←—	—
R7622	MG RESISTOR	—	—	—	—	NRSA63J-223X
R7623	MG RESISTOR	—	—	—	—	NRSA63J-223X
R7624	MG RESISTOR	—	—	—	—	NRVA63D-223X
R7625	MG RESISTOR	—	—	—	—	NRVA63D-223X
C7636	CAPACITOR	—	—	—	—	NCF31CZ-104X
L7605	COIL	NQL315K-100X	←—	←—	←—	—
L7606	COIL	—	—	—	—	NQL315K-100X
SW1	SHIELD SWITCH	NSW0092-001X	—	NSW0092-001X	←—	←—

LCD BL BOARD ASSEMBLY <03>

⚠ REF. NO	MODEL ITEM	GR-DVL150EG	GR-DVL140EG	GR-DVL157EG	GR-DVL157EK	GR-DVL257EK
PW2	LCD BL BOARD ASSY	YB10325B	YB10324B2-02	YB10325B	←—	YB10324A2-02
IC751	IC	—	—	—	—	MIP805
D751	DIODE	—	—	—	—	1SS376
R751	MG RESISTOR	—	—	—	—	NRSA63J-104X
C751	CAPACITOR	—	—	—	—	NBE20JM-106X
C752	CAPACITOR	—	—	—	—	NBE20JM-106X
C753	CAPACITOR	—	—	—	—	NCB31HK-222X
C754	CAPACITOR	—	—	—	—	NCB31HK-222X
L751	COIL	—	—	—	—	NQLZ011-681X
L752	COIL	—	—	—	—	NQL315K-100X
CN754	CONNECTOR	—	—	—	—	QGF0505F2-06X
⚠ F751	FUSE	—	—	—	—	NMFZ007-R20X-K

JACK BOARD ASSEMBLY <06>

⚠ REF. NO	MODEL ITEM	GR-DVL150EG	GR-DVL140EG	GR-DVL157EG	GR-DVL157EK	GR-DVL257EK
PW1	JACK BOARD ASSY	YB10314A1-03	YB10314A1-02	YB10314A1-03	←—	←—
OT2	SPACER-B,X2	—	LY30017-023A	—	—	—

Notes : Mark — is not used.
Mark ←— is same as left.

VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

S40894

Printed in Japan

JVC

SCHEMATIC DIAGRAMS

Additional edition

GR-DVL140EG,DVL157EG/EK,DVL257EK

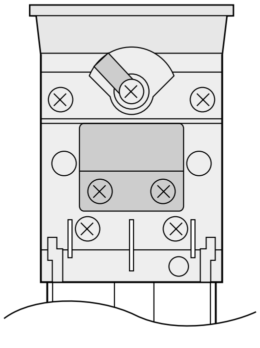
CD-ROM NO. SML200207

NOTES:

1. Two types of B/W (black and white) VFs are used for this model. One type has been described in the service manual which has already been published.
   The other type of B/W VF is described in this additional manual.
2. Two types of B/W VFs do not have compatibility with each other.
3. Two types of B/W VFs can be recognized based on the shape of the coating parts.
   When repairing, please confirm the shape of the parts and see the service manual which describes them.

How to recognize the parts described in original edition and the ones in additional edition is shown below.

Original edition
< M-type >



Additional edition
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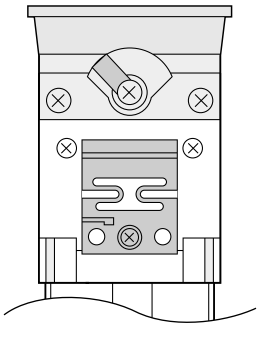

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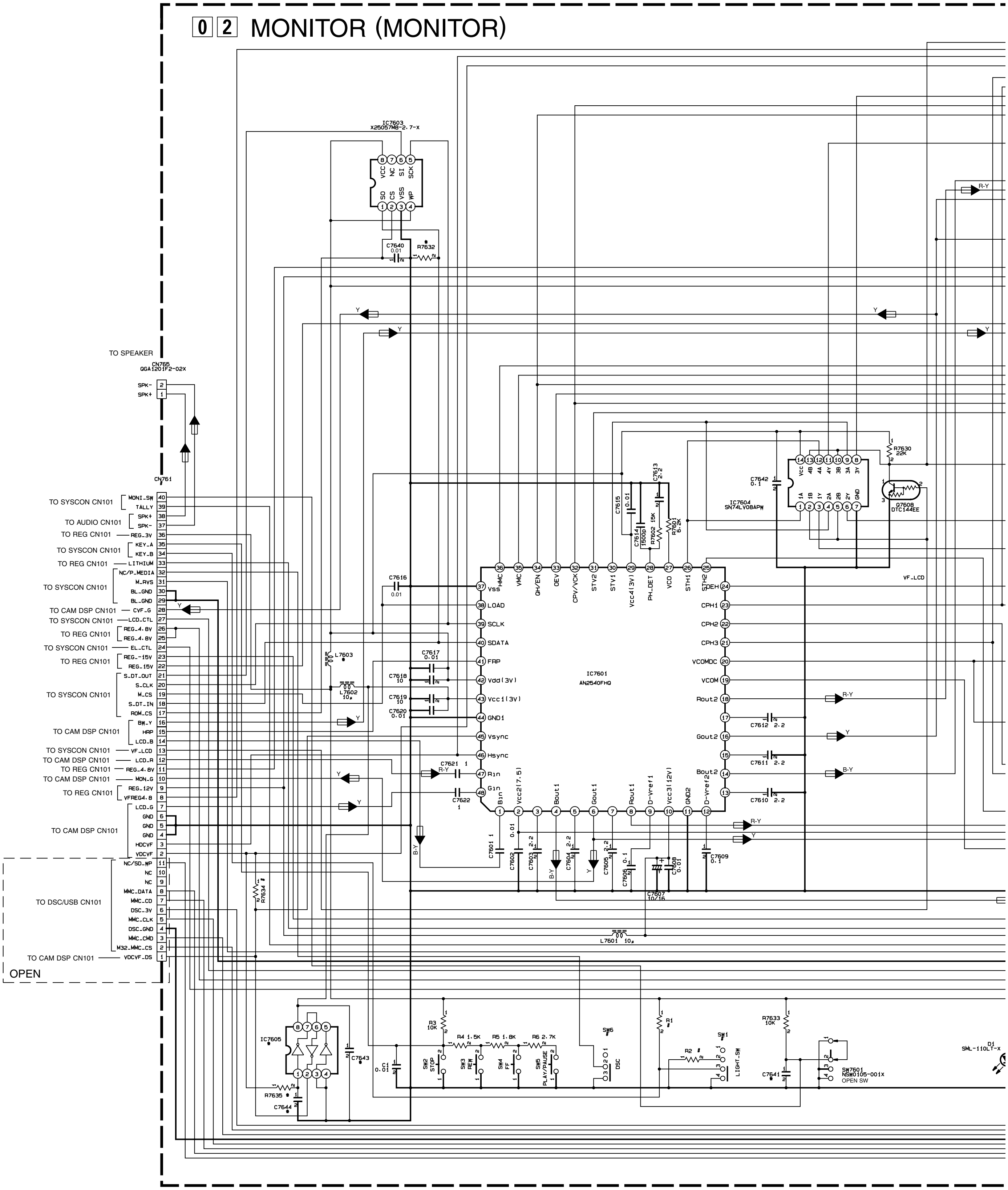
No. 86620BSCH
July 2002

SECTION 4
CHARTS AND DIAGRAMS

4.1 MONITOR SCHEMATIC DIAGRAM



02 MONITOR (MONITOR)
IC7603
X25057M8-2.7-X
VCC NC SI SCK
SO CS VSS WP
C7640 0.01
R7632
TO SPEAKER
CN765
QGA1201F2-02X
SPK- 2
SPK+ 1
CN761
TO SYSCON CN101
MONI_SW 40
TALLY 39
TO AUDIO CN101
SPK+ 38
SPK- 37
TO REG CN101 REG_3V 36
TO SYSCON CN101
KEY_A 35
KEY_B 34
TO REG CN101 LITHIUM 33
TO SYSCON CN101
NC/P_MEDIA 32
M_RVS 31
BL_GND 30
BL_GND 29
TO CAM DSP CN101 CVF_G 28
TO SYSCON CN101 LCD_CTL 27
TO REG CN101
REG_4.8V 26
REG_4.8V 25
TO SYSCON CN101 EL_CTL 24
TO REG CN101
REG_-15V 23
REG_15V 22
TO SYSCON CN101
S_DT_OUT 21
S_CLK 20
M_CS 19
S_DT_IN 18
ROM_CS 17
TO CAM DSP CN101
BW_Y 16
HRP 15
LCD_B 14
TO SYSCON CN101 VF_LCD 13
TO CAM DSP CN101 LCD_R 12
TO REG CN101 REG_4.8V 11
TO CAM DSP CN101 MON_G 10
TO REG CN101
REG_12V 9
VFREG4.8 8
TO CAM DSP CN101
LCD_G 7
GND 6
GND 5
GND 4
HDCVF 3
VDCVF 2
TO DSC/USB CN101
NC/SD_WP 11
NC 10
NC 9
MMC_DATA 8
MMC_CD 7
DSC_3V 6
MMC_CLK 5
DSC_GND 4
MMC_CMD 3
M32_MMC_CS 2
TO CAM DSP CN101 VDCVF_DS 1
OPEN
Y
R-Y
B-Y
IC7601
AN2540FHQ
HMC VMC OH/EN OEV CPV/VCK STV2 STV1 Vcc4(3V) PH_DET VCO STH1 STH2
Vss LOAD SCLK SDATA FRP Vdd(3V) Vcc1(3V) GND1 Vsync Hsync Rin Gin
OEH CPH1 CPH2 CPH3 VCOMDC VCOM Rout2 Gout2 Bout2
Bin Vcc2(7.5) Bout1 Gout1 Rout1 D-Vref1 Vcc3(12V) GND2 D-Vref2
C7616 0.01
C7617 0.01
C7618 10
C7619 10
C7620 0.01
L7603
L7602 10μ
C7621 1
C7622 1
C7612 2.2
C7611 2.2
C7610 2.2
C7601 1
C7602 0.01
C7603 2.2
C7604 2.2
C7605 2.2
C7606 0.1
C7607 10/16
C7608 0.01
C7609 0.1
L7601 10μ
C7615 0.01
C7613 2.2
C7614 1500P
R7602 15K
R7601 6.2K
C7642 0.1
IC7604
SN74LV08APW
VCC 4B 4A 4Y 3B 3A 3Y
1A 1B 1Y 2A 2B 2Y GND
R7630 22K
Q7608
DTC144EE
VF_LCD
R7634 ※
IC7605
C7643
R7635
C7644
C1 0.01
R3 10K
R4 1.5K
R5 1.8K
R6 2.7K
SW2 STOP
SW3 REW
SW4 FF
SW5 PLAY/PAUSE
SW6 DSC
R1 ※
R2 ※
SW1 LIGHT_SW
R7633 10K
C7641
SW7601
NSW0105-001X
OPEN SW
D1
SML-110LT-X

※ NO WEAR

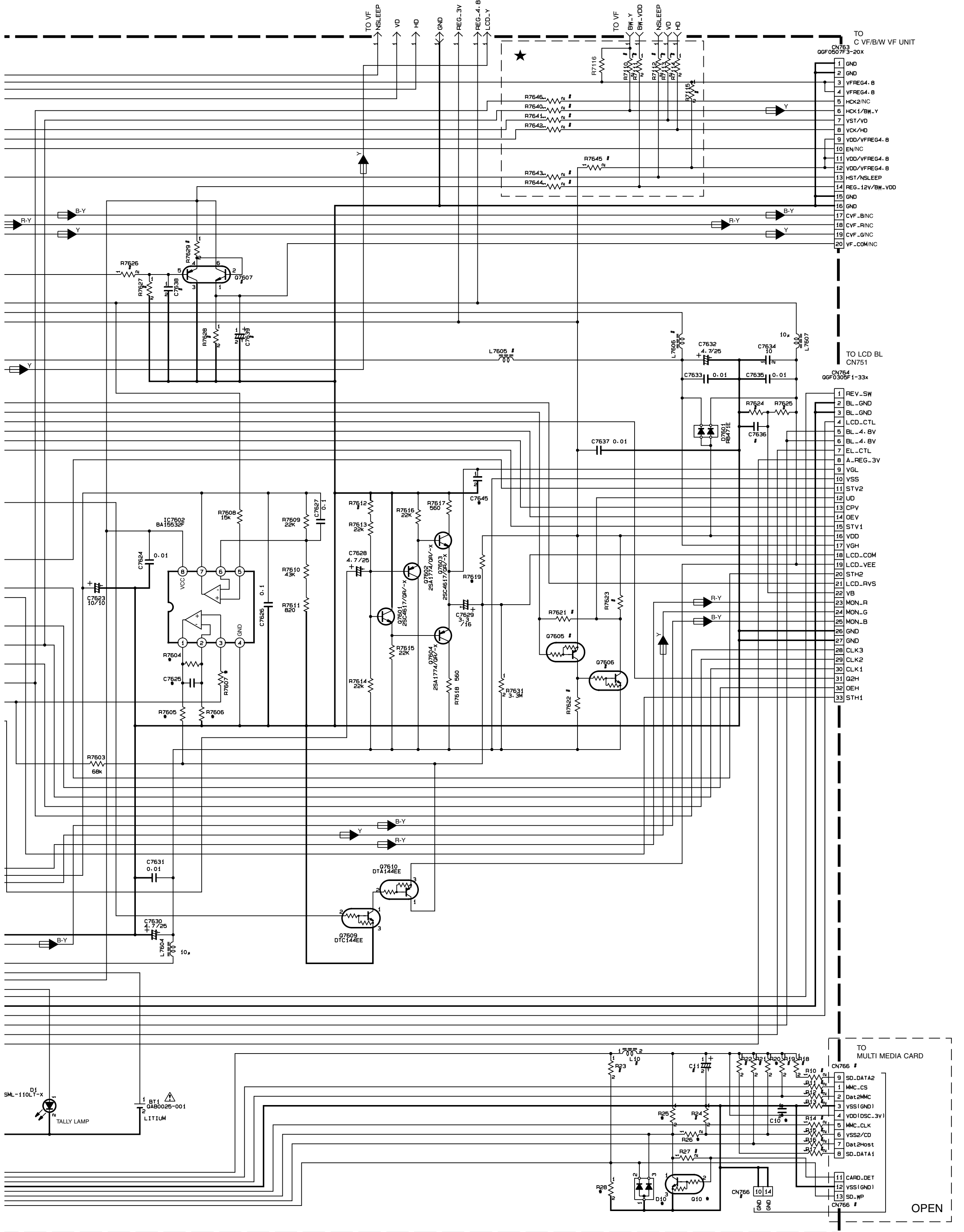
	R7110	R7111	R7112	R7113	R7114	R7115	Q7607	R7626	R7627	R7628	R7629	R7640	R7641	R7642	R7643	R7644	R7645	R7646	C7638	C7639
CVF MODEL	※	※	※	※	※	※	UMZ1N	18K	330K	220K	39K	0	0	0	0	0	0	0	2.2	10/10
B/W VF MODEL	0	0	0	0	0	0	※	※	※	※	※	※	※	※	※	※	※	※	※	※

	Q7605	Q7606	L7605	L7606	R7612	R7621	R7622	R7623	R7624	R7625	C7636
2.5inch MODEL	※	※	10	※	22K	0	※	※	※	※	※
3/3.5inch MODEL	DTA144EE	DTC144EE	※	10	6.8K	※	22K	22K	22K	22K	0.1

	R7634	CN761	CN766	SW6	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R21	R22	R23	R24	R27	C11	L10
With DSC	※	QGF0508F1-50X	NNZ0052-001X	NSW0099-001X	0	0	0	0	0	0	0	0	47K	10K	10K	47K	100K	0	0	10/6.3	NQR0129-002X
Without DSC	0	QGF0508F1-40X	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※

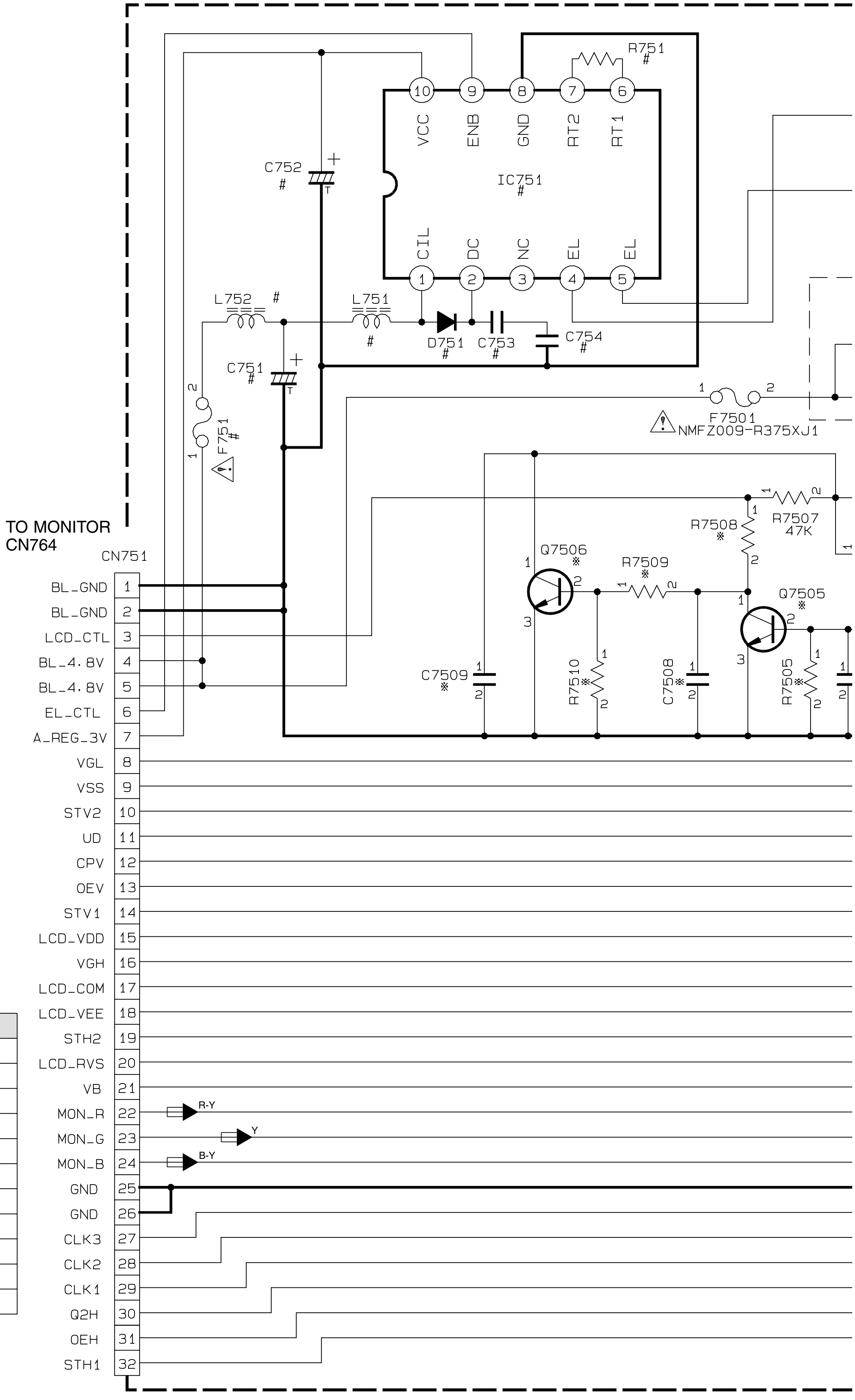
	R1	R2	SW1
With LIGHT	10K	10K	NSW0092-001X
Without LIGHT	※	※	※

NOTES 1. How to find the page showing the continuative schematic diagram.
Example) TO SYSCON: Refer to the GR-DVL150EG service manual (NO. 86613B).
TO $\overline{\text{SYSCON}}$: Refer to this service manual.
2. The mark ★ means modified points.
3. When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



TO VF
NSLEEP
VD
HD
GND
REG_3V
REG_4.8V
LCD_Y
TO VF
BW_Y
BW_VDD
NSLEEP
VD
HD
★
R7716
R7710
R7711
R7712
R7713
R7714
R7715
R7646
R7640
R7641
R7642
R7645
R7643
R7644
TO
C VF/B/W VF UNIT
CN763
QGF0507F3-20X
1 GND
2 GND
3 VFREG4.8
4 VFREG4.8
5 HCK2/NC
6 HCK1/BW_Y
7 VST/VD
8 VCK/HD
9 VDD/VFREG4.8
10 EN/NC
11 VDD/VFREG4.8
12 VDD/VFREG4.8
13 HST/NSLEEP
14 REG_12V/BW_VDD
15 GND
16 GND
17 CVF_B/NC
18 CVF_R/NC
19 CVF_G/NC
20 VF_COM/NC
Y
B-Y
R-Y
R7626
R7627
C7638
R7629
Q7607
R7628
C7639
L7605
L7606
C7632 4.7/25
C7634 10
10µ
L7607
C7633 0.01
C7635 0.01
TO LCD BL
CN751
CN764
QGF0305F1-33X
1 REV_SW
2 BL_GND
3 BL_GND
4 LCD_CTL
5 BL_4.8V
6 BL_4.8V
7 EL_CTL
8 A_REG_3V
9 VGL
10 VSS
11 STV2
12 UD
13 CPV
14 OEV
15 STV1
16 VDD
17 VGH
18 LCD_COM
19 LCD_VEE
20 STH2
21 LCD_RVS
22 VB
23 MON_R
24 MON_G
25 MON_B
26 GND
27 GND
28 CLK3
29 CLK2
30 CLK1
31 Q2H
32 OEH
33 STH1
R7624
R7625
D7601 RB471E
C7636
C7637 0.01
C7645
IC7602
BA15532F
C7624 0.01
C7623 10/10
R7608 15K
R7609 22K
C7627 0.1
R7610 43K
R7611 820
C7626 0.1
VCC
GND
R7604
C7625
R7607
R7605
R7606
R7603 68K
R7612
R7613 22K
R7616 22K
R7617 560
C7628 4.7/25
Q7601 2SC4617/QR/-X
Q7602 2SA1774/QR/-X
Q7603 2SC4617/QR/-X
Q7604 2SA1774/QR/-X
R7615 22K
R7614 22K
R7618 560
R7619
C7629 3.3 /16
R7631 3.3M
R7621
R7623
Q7605
Q7606
R7622
C7631 0.01
Q7610 DTA144EE
Q7609 DTC144EE
C7630 4.7/25
L7604
10µ
D1
SML-110LT-X
TALLY LAMP
BT1
QAB0025-001
LITIUM
L10
R23
C11
R22
R21
R20
R19
R18
R10
R11
R12
R13
R14
R15
R16
R17
C10
R25
R24
R26
R27
R28
D10
Q10
CN766
GND
TO
MULTI MEDIA CARD
CN766
9 SD_DATA2
1 MMC_CS
2 Dat2MMC
3 VSS(GND)
4 VDD(DSC_3V)
5 MMC_CLK
6 VSS2/CD
7 Dat2Host
8 SD_DATA1
11 CARD_DET
12 VSS(GND)
13 SD_WP
OPEN
R
y10194001a_rev0.1

4.2 LCD BL SCHEMATIC DIAGRAM



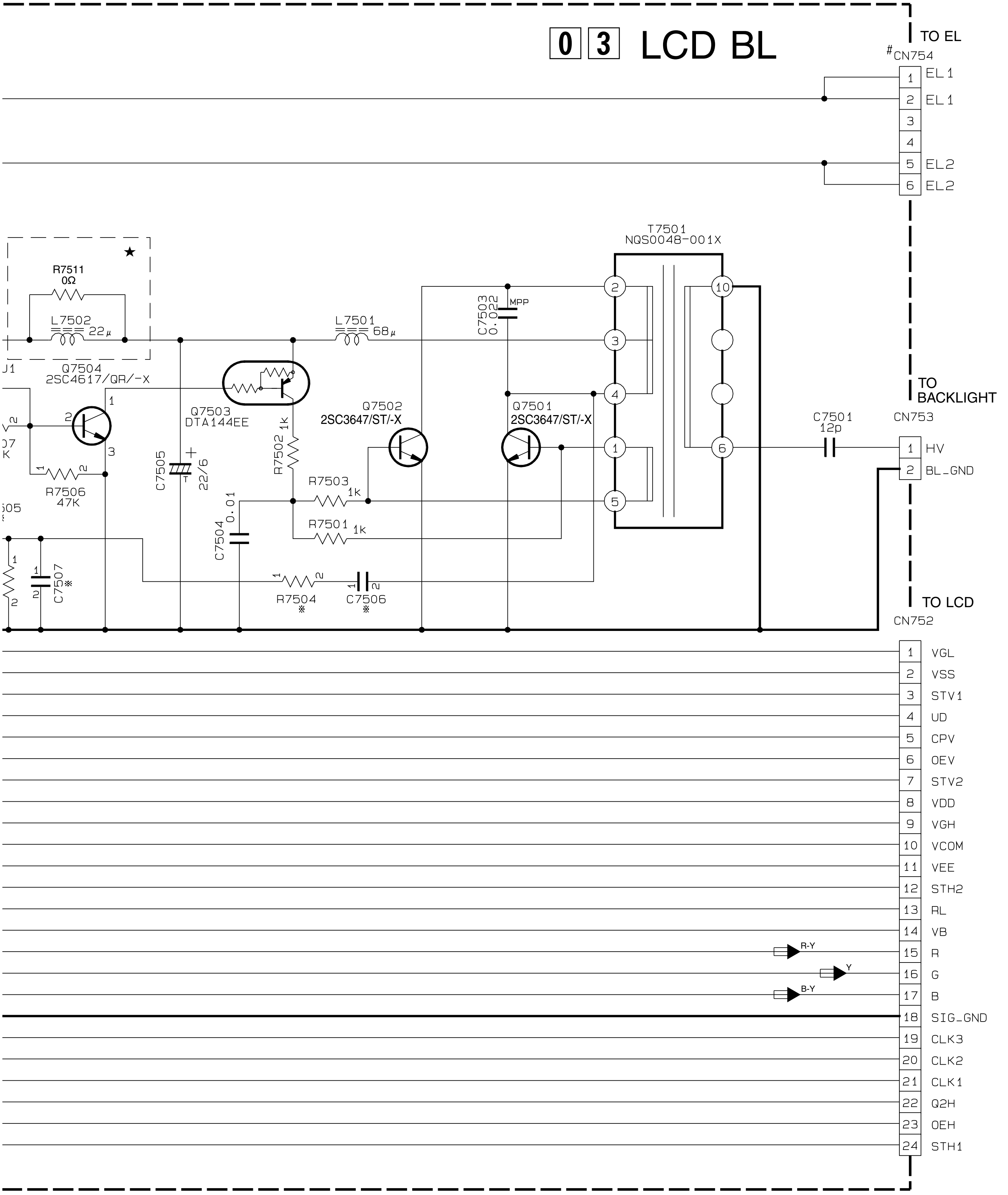
IC751
#
VCC
ENB
GND
RT2
RT1
CIL
DC
NC
EL
EL
10
9
8
7
6
1
2
3
4
5
R751
#
C752
#
L752
#
L751
#
D751
#
C753
#
C754
#
C751
#
F751
#
F7501
NMFZ009-R375XJ1
R7508
※
R7507
47K
Q7506
※
R7509
※
Q7505
※
C7509
※
R7510
※
C7508
※
R7505
※
TO MONITOR
CN764
CN751
BL_GND 1
BL_GND 2
LCD_CTL 3
BL_4.8V 4
BL_4.8V 5
EL_CTL 6
A_REG_3V 7
VGL 8
VSS 9
STV2 10
UD 11
CPV 12
OEV 13
STV1 14
LCD_VDD 15
VGH 16
LCD_COM 17
LCD_VEE 18
STH2 19
LCD_RVS 20
VB 21
MON_R 22
MON_G 23
MON_B 24
GND 25
GND 26
CLK3 27
CLK2 28
CLK1 29
Q2H 30
OEH 31
STH1 32
R-Y
Y
B-Y

※ NO WEAR

#: EXCHANGE PARTS LIST

	With EL	Without EL
IC751	MIP805	※
F751	NMFZ007-R20X-K	※
D751	1SS376	※
L751	680	※
L752	10	※
R751	100K	※
C751	10/6.3	※
C752	10/6.3	※
C753	2200p	※
C754	2200p	※
CN754	QGF0505F2-06X	※

NOTES 1. How to find the page showing the continuative schematic diagram.
Example) TO SYSCON: Refer to the GR-DVL150EG service manual (NO. 86613B).
TO SYSCON: Refer to this service manual.
2. The mark ★ means modified points.
3. When ordering parts, be sure to order according to the Part Number indicated in the Parts List.

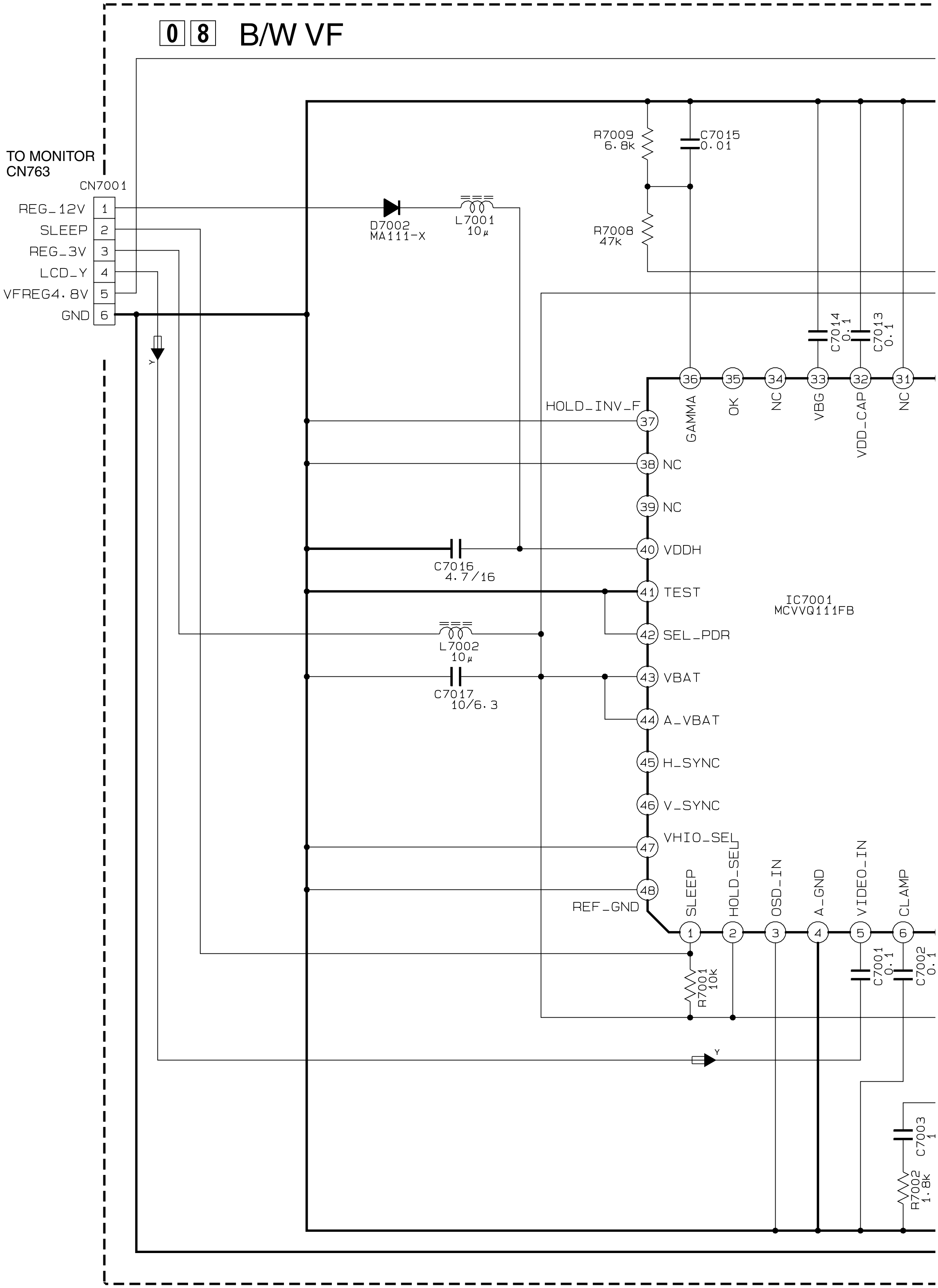


0 3 LCD BL
TO EL
#CN754
1 EL1
2 EL1
3
4
5 EL2
6 EL2
★
R7511
0Ω
L7502
22μ
L7501
68μ
T7501
NQS0048-001X
C7503
0.022
MPP
J1
Q7504
2SC4617/QR/-X
Q7503
DTA144EE
Q7502
2SC3647/ST/-X
Q7501
2SC3647/ST/-X
R7502
1k
R7506
47K
C7505
22/6
R7503
1k
R7501
1k
C7504
0.01
C7507
※
R7504
※
C7506
※
TO BACKLIGHT
CN753
C7501
12p
1 HV
2 BL_GND
TO LCD
CN752
1 VGL
2 VSS
3 STV1
4 UD
5 CPV
6 OEV
7 STV2
8 VDD
9 VGH
10 VCOM
11 VEE
12 STH2
13 RL
14 VB
15 R
16 G
17 B
18 SIG_GND
19 CLK3
20 CLK2
21 CLK1
22 Q2H
23 OEH
24 STH1
R-Y
Y
B-Y

y30127001a_rev0.1

4.3 B/W VF SCHEMATIC DIAGRAM

5
4
3
2
1



08 B/W VF
TO MONITOR CN763
CN7001
REG_12V 1
SLEEP 2
REG_3V 3
LCD_Y 4
VFREG4.8V 5
GND 6
D7002 MA111-X
L7001 10μ
R7009 6.8k
C7015 0.01
R7008 47k
C7014 0.1
C7013 0.1
36 GAMMA
35 OK
34 NC
33 VBG
32 VDD_CAP
31 NC
HOLD_INV_F 37
38 NC
39 NC
40 VDDH
41 TEST
42 SEL_PDR
43 VBAT
44 A_VBAT
45 H_SYNC
46 V_SYNC
47 VHIO_SEL
REF_GND 48
1 SLEEP
2 HOLD_SEL
3 OSD_IN
4 A_GND
5 VIDEO_IN
6 CLAMP
C7016 4.7/16
L7002 10μ
C7017 10/6.3
IC7001 MCVVQ111FB
R7001 10k
C7001 0.1
C7002 0.1
C7003 1
R7002 1.8k
Y
Y

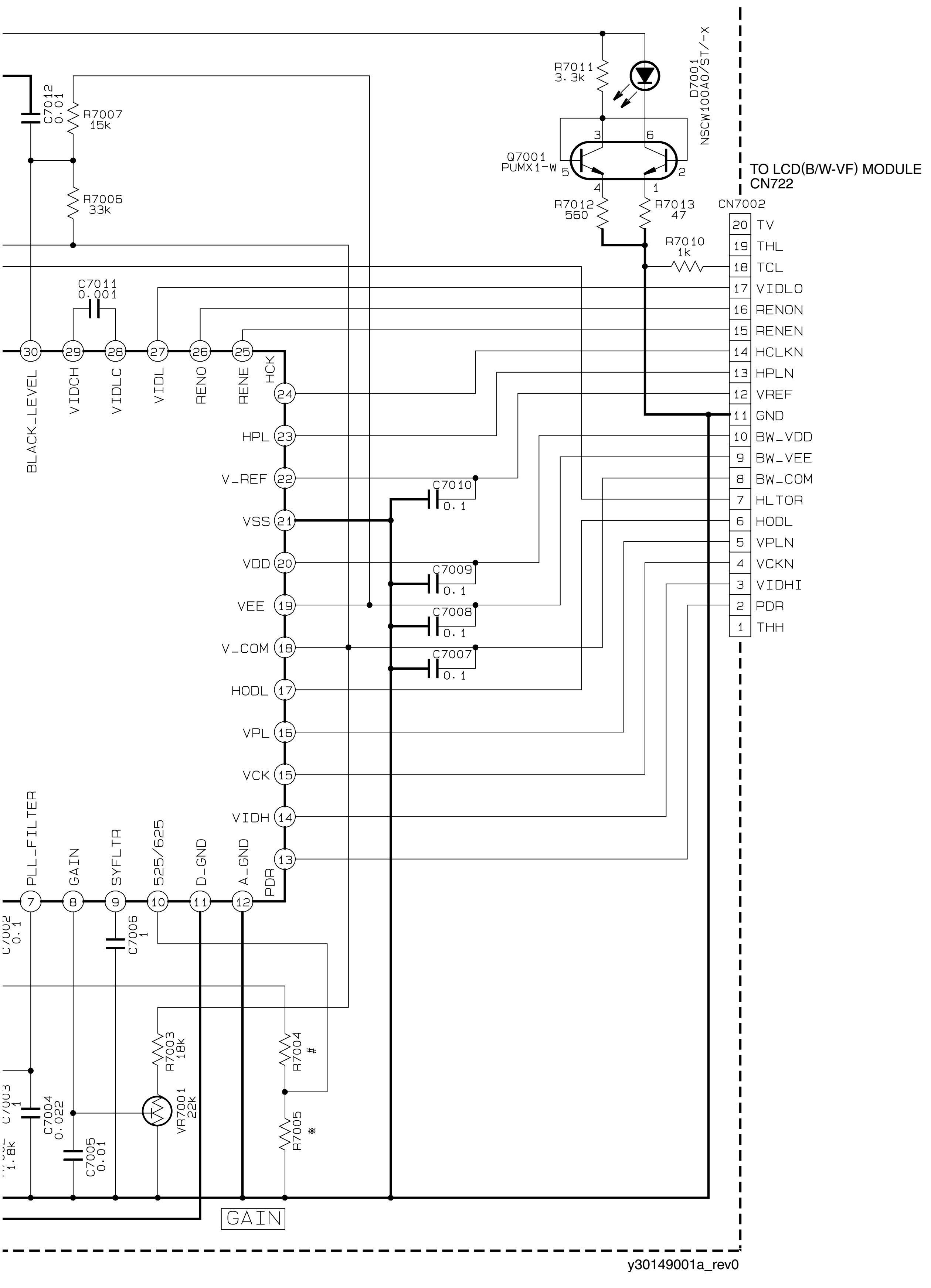
Difference table

※ NO WEAR

	R7004
NTSC	※
PAL	0

A B C D

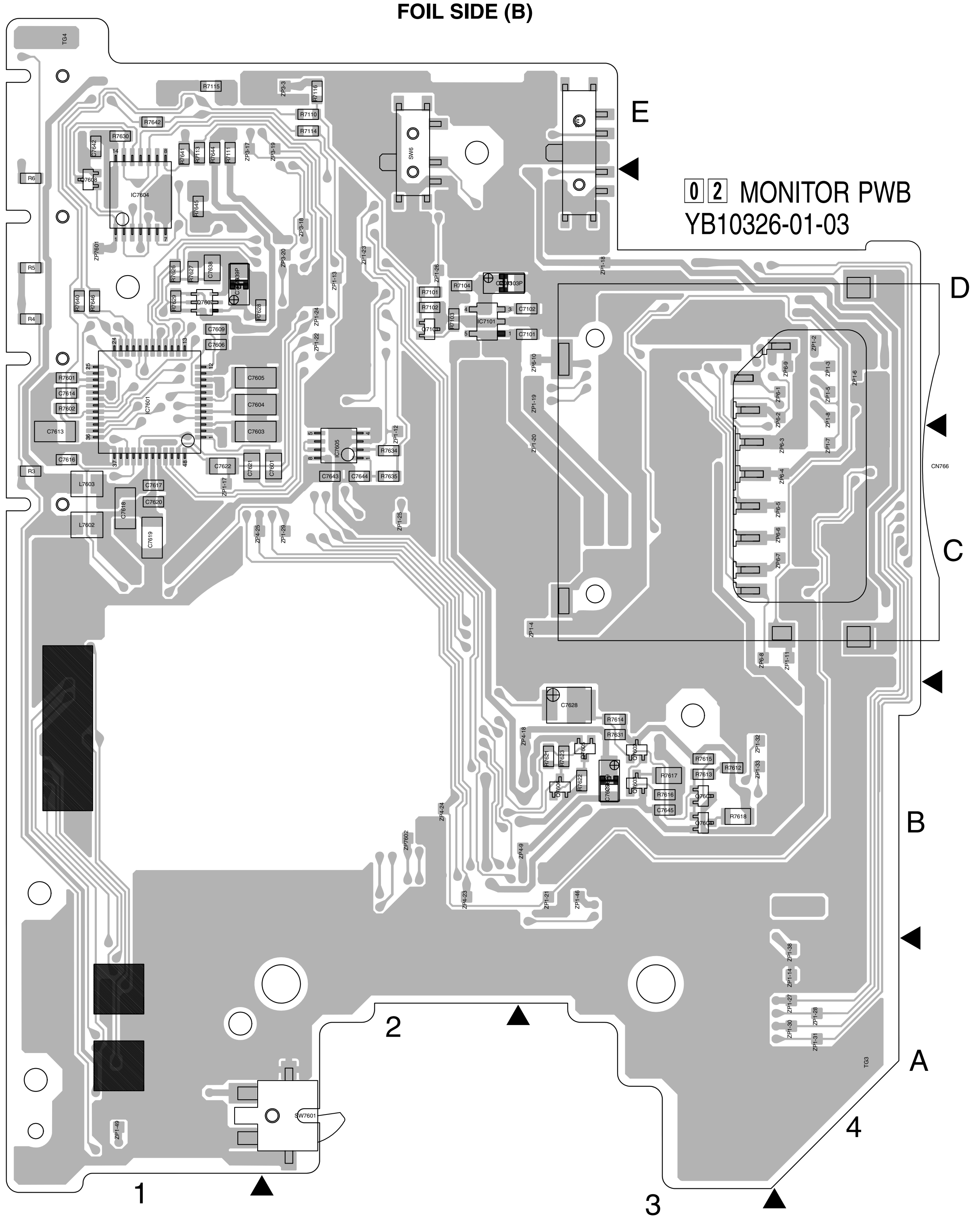
NOTE 1. How to find the page showing the continuative schematic diagram.
Example) TO SYSCON: Refer to the GR-DVL150EG service manual (NO. 86613B).
TO SYSCON: Refer to this service manual.
2. The mark ★ means modified points.
3. When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



R7011
3.3k
D7001
NSCW100A0/ST/-X
C7012
0.01
R7007
15k
Q7001
PUMX1-W
R7006
33k
R7012
560
R7013
47
TO LCD(B/W-VF) MODULE
CN722
CN7002
R7010
1k
20 TV
19 THL
18 TCL
17 VIDLO
16 RENON
15 RENEN
14 HCLKN
13 HPLN
12 VREF
11 GND
10 BW_VDD
9 BW_VEE
8 BW_COM
7 HLTOR
6 HODL
5 VPLN
4 VCKN
3 VIDHI
2 PDR
1 THH
C7011
0.001
30 BLACK_LEVEL
29 VIDCH
28 VIDLC
27 VIDL
26 RENO
25 RENE
24 HCK
23 HPL
22 V_REF
21 VSS
20 VDD
19 VEE
18 V_COM
17 HODL
16 VPL
15 VCK
14 VIDH
13 PDR
C7010
0.1
C7009
0.1
C7008
0.1
C7007
0.1
7 PLL_FILTER
8 GAIN
9 SYFLTR
10 525/625
11 D_GND
12 A_GND
C7002
0.1
C7006
1
R7003
18k
R7004
#
VR7001
22k
R7005
※
C7003
1
C7004
0.022
C7005
0.01
1.8k
GAIN
y30149001a_rev0

4.4 MONITOR CIRCUIT BOARD

FOIL SIDE (B)

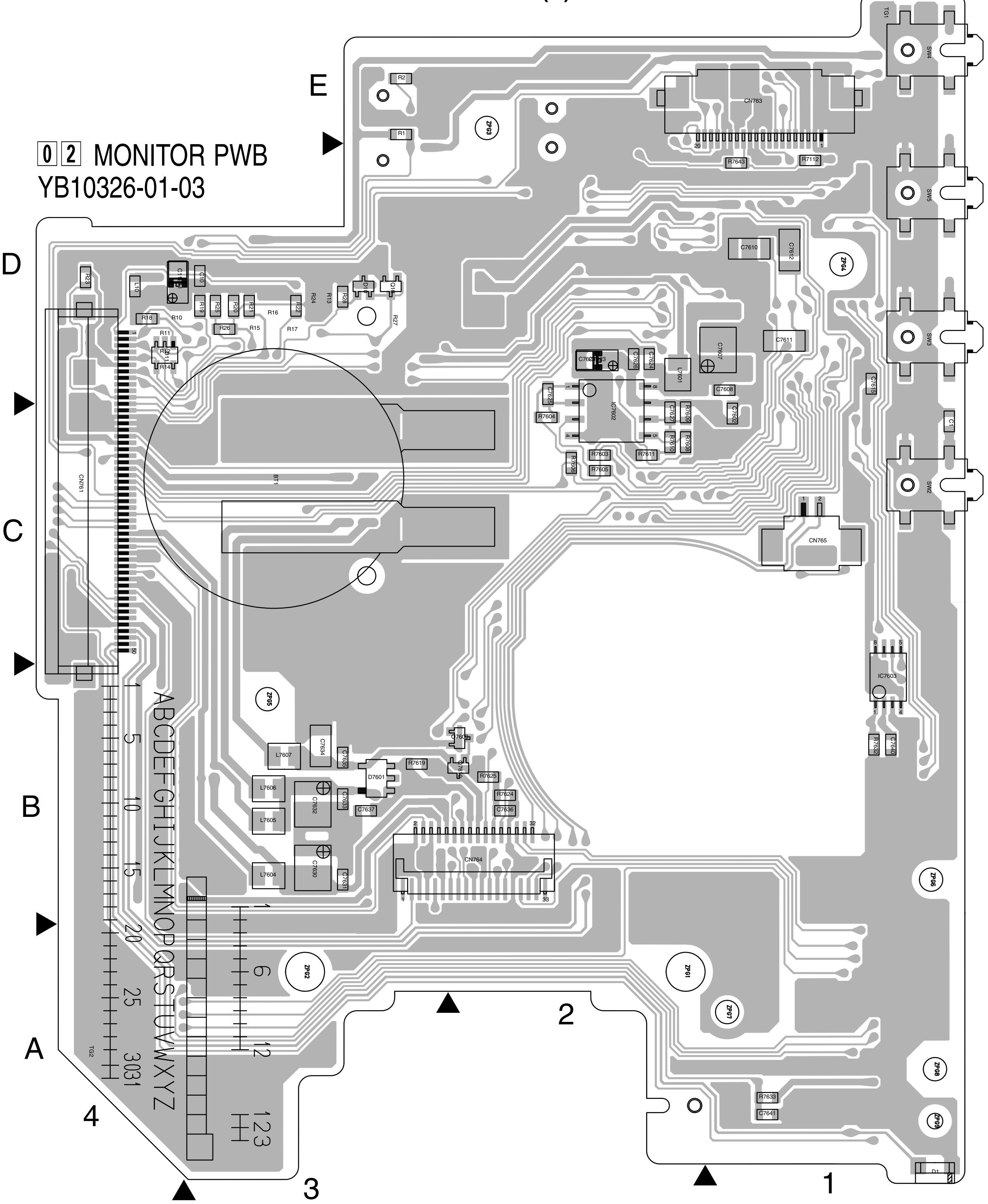

0 2 MONITOR PWB
YB10326-01-03
A
B
C
D
E
1
2
3
4
TG4
TG3
R7115
R7116
R7110
R7114
R7642
R7630
C7642
C7608
IC7604
R6
R5
R4
R3
R7601
C7614
R7602
C7613
C7616
C7601
L7603
L7602
C7617
C7620
C7618
C7619
C7605
C7604
C7603
C7622
IC7605
R7634
C7643
C7644
R7635
C7609
C7606
C7638
Q7607
SW6
R7101
R7102
R7103
R7104
Q7101
IC7101
C7102
C7101
C7103P
CN766
C7628
R7614
R7631
R7615
R7612
R7613
R7617
R7616
C7645
R7618
R7621
R7622
SW7601
ZP1-40

COMPONENT PARTS LOCATION GUIDE <MONITOR/YB10326-01-03> (1/2)

REF.NO.	LOCATION		
CAPACITOR			
C1	A	C	1C
C10	A	C	3D
C11	A	C	4D
C7101	B	C	3D
C7102	B	C	3D
C7103	B	C	2D
C7601	B	C	2C
C7602	A	C	1C
C7603	B	C	1C
C7604	B	C	1D
C7605	B	C	1D
C7606	B	C	1D
C7607	A	C	1D
C7608	A	C	1D
C7609	B	C	1D
C7610	A	C	1D
C7611	A	C	1D
C7612	A	C	1D
C7613	B	C	1C
C7614	B	C	1D
C7615	A	C	1D
C7616	B	C	1C
C7617	B	C	1C
C7618	B	C	1C
C7619	B	C	1C
C7620	B	C	1C
C7621	B	C	1C
C7622	B	C	1C
C7623	A	C	2D
C7624	A	C	2D
C7625	A	C	2D
C7626	A	C	2D
C7627	A	C	2C
C7628	B	C	3B
C7629	B	C	3B
C7630	A	C	3B
C7631	A	C	3B
C7632	A	C	3B
C7633	A	C	3B
C7634	A	C	3B
C7635	A	C	3B
C7636	A	C	2B
C7637	A	C	3B
C7638	B	C	1D
C7639	B	C	1D
C7640	A	C	1B
C7641	A	C	1A
C7642	B	C	1E
C7643	B	C	2C
C7644	B	C	2C
C7645	B	C	3B
CONNECTOR			
CN761	A	C	4D
CN763	A	C	1E
CN764	A	C	3B
CN765	A	C	1C
CN766	B	C	4C
DIODE			
D1	A	C	1A
D10	A	C	3D
D11	A	C	4D
D7601	A	C	3B
IC			
IC7101	B	C	2D
IC7601	B	C	1D
IC7602	A	C	2C
IC7603	A	C	1B
IC7604	B	C	1D
IC7605	B	C	2C
COIL			
L10	A	C	4D
L7601	A	C	2D
L7602	B	C	1C
L7603	B	C	1C
L7604	A	C	3B
L7605	A	C	3B
L7606	A	C	3B
L7607	A	C	3B
TRANSISTOR			
Q10	A	C	3D
Q7101	B	C	2D
Q7601	B	C	3B
Q7602	B	C	3B
Q7603	B	C	3B
Q7604	B	C	3B
Q7605	B	C	3B
Q7606	B	C	3B
Q7607	B	C	1D
Q7608	B	C	1D
Q7609	A	C	2B
Q7610	A	C	2B
RESISTOR			
R1	A	C	3E
R2	A	C	3E
R3	B	C	1C
R4	B	C	1D
R5	B	C	1D
R6	B	C	1D
R18	A	C	4D
R19	A	C	3D
R20	A	C	3D
R21	A	C	3D
R22	A	C	3D
R23	A	C	4D
R25	A	C	3D
R26	A	C	3D
R28	A	C	3D
R7101	B	C	2D
R7102	B	C	2D
R7103	B	C	2D
R7104	B	C	2D
R7110	B	C	2E
R7111	B	C	1E
R7112	A	C	1D
R7113	B	C	1E
R7114	B	C	2E
R7115	B	C	1E
R7116	B	C	2E
R7601	B	C	1D
R7602	B	C	1D
R7603	A	C	2C
R7604	A	C	2C
R7605	A	C	2C
R7606	A	C	2C

COMPONENT SIDE (A)

02 MONITOR PWB
YB10326-01-03


E
D
C
B
A
1
2
3
4
CN763
CN761
CN764
CN765
BT1
IC7602
IC7603
SW1
SW2
SW3
SW4
SW5
TG1
TG2
C7610
C7612
C7611
C7607
C7608
C7634
C7632
C7630
C7631
C7633
C7637
C7636
C7641
C7640
L7601
L7604
L7605
L7606
L7607
D7601
Q7601
R1
R2
R7643
R7112
R7603
R7604
R7605
R7611
R7619
R7624
R7625
R7633
R7632
ZP61
ZP62
ZP63
ZP64
ZP65
ZP66
ZP67
ZP68
ZP69
D1
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1
5
10
15
20
25
30
31
6
12
123

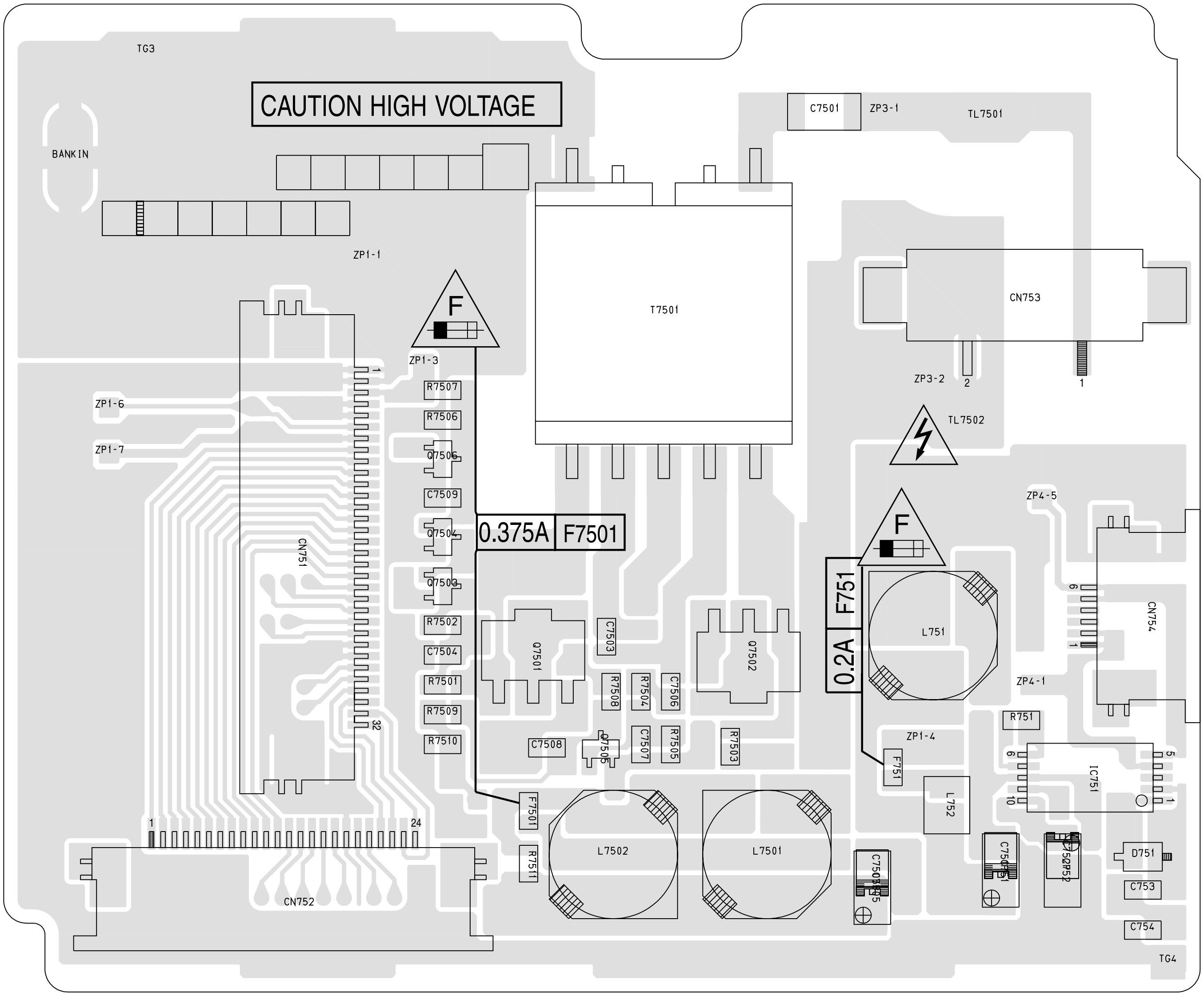
COMPONENT PARTS LOCATION GUIDE <MONITOR/YB10326-01-03> (2/2)

REF.NO.	LOCATION			REF.NO.	LOCATION			REF.NO.	LOCATION			REF.NO.	LOCATION			REF.NO.	LOCATION			REF.NO.	LOCATION		
R7608	A	C	2C	R7628	B	C	1D	C7103P	B	C	2D	ZP1-7	B	C	4C	ZP1-19	B	C	3D	ZP3-18	B	C	2D
R7609	A	C	2C	R7629	B	C	1D	C7623P	A	C	2D	ZP1-8	B	C	4D	ZP1-20	B	C	3C	ZP3-19	B	C	2E
R7610	A	C	2C	R7630	B	C	1E	C7629P	B	C	3B	ZP3-3	B	C	2E	ZP1-21	B	C	3B	ZP3-20	B	C	2D
R7611	A	C	2C	R7631	B	C	3B	C7639P	B	C	1D	ZP4-9	B	C	3B	ZP1-22	B	C	2D	ZP4-18	B	C	3B
R7612	B	C	3B	R7632	A	C	1B	SW1	B	C	3E	ZP6-1	B	C	4D	ZP1-23	B	C	2D	ZP4-23	B	C	2B
R7613	B	C	3B	R7633	A	C	1A	SW2	A	C	1C	ZP6-2	B	C	4D	ZP1-24	B	C	2D	ZP4-24	B	C	2B
R7614	B	C	3B	R7634	B	C	2C	SW3	A	C	1D	ZP6-3	B	C	4C	ZP1-25	B	C	2C	ZP4-25	B	C	1C
R7615	B	C	3B	R7635	B	C	2C	SW4	A	C	1E	ZP6-4	B	C	4C	ZP1-26	B	C	2D	ZP6-10	B	C	3D
R7616	B	C	3B	R7640	B	C	1D	SW5	A	C	1D	ZP6-5	B	C	4C	ZP1-27	B	C	4A	ZP7601	B	C	1D
R7617	B	C	3B	R7641	B	C	1E	SW6	B	C	2E	ZP6-6	B	C	4C	ZP1-28	B	C	4A	ZP7602	B	C	2B
R7618	B	C	3B	R7642	B	C	1E	SW7601	B	C	2A	ZP6-7	B	C	4C	ZP1-29	B	C	2C	ZPG1	A	D	2A
R7619	A	C	3B	R7643	A	C	1D	TM1	A	C	4A	ZP6-8	B	C	3C	ZP1-30	B	C	4A	ZPG2	A	D	3A
R7621	B	C	3B	R7644	B	C	1E	TM03	A	C	4E	ZP6-9	B	C	4D	ZP1-31	B	C	4A	ZPG3	A	D	2E
R7622	B	C	3B	R7645	B	C	1D	TM3	A	C	4E	ZP1-11	B	C	4C	ZP1-32	B	C	3B	ZPG4	A	D	1D
R7623	B	C	3B	R7646	B	C	1D	ZP1-2	B	C	4D	ZP1-12	B	C	2C	ZP1-33	B	C	3B	ZPG5	A	D	3B
R7624	A	C	2B	**OTHER**				ZP1-3	B	C	4D	ZP1-13	B	C	2D	ZP1-38	B	C	4A	ZPG6	A	D	1B
R7625	A	C	2B					ZP1-4	B	C	3C	ZP1-14	B	C	4A	ZP1-46	B	C	3B	ZPG7	A	D	1A
R7626	B	C	1D	BT1	A	C	3C	ZP1-5	B	C	4D	ZP1-17	B	C	1C	ZP1-49	B	C	1A	ZPG8	A	D	1A
R7627	B	C	1D	C11P	A	C	4D	ZP1-6	B	C	4D	ZP1-18	B	C	3D	ZP3-17	B	C	1E	ZPG9	A	D	1A

4.5 LCD BL CIRCUIT BOARD

FOIL SIDE (B)

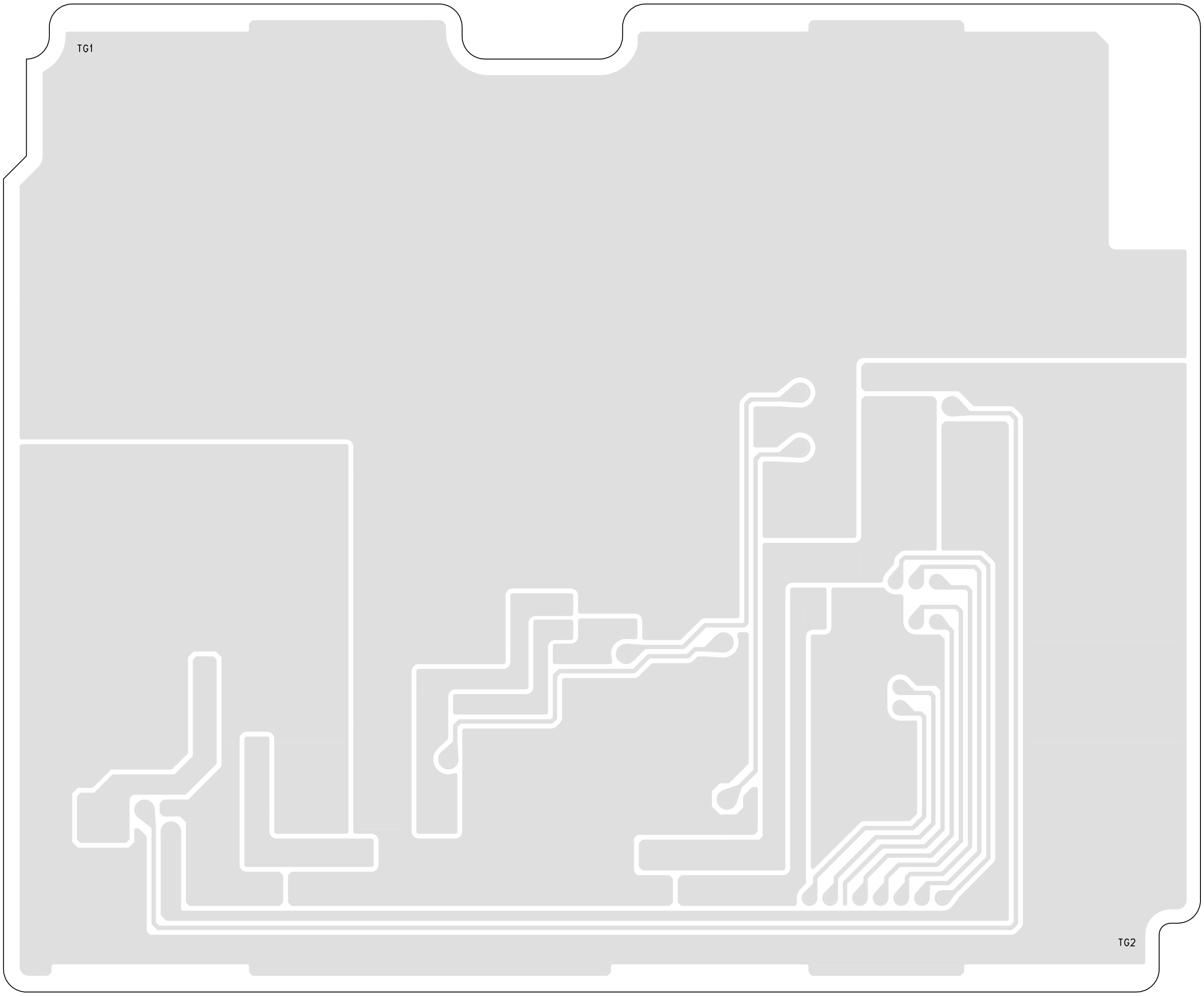
03 LCD BL PWB
YB10325-01-03


TG3
CAUTION HIGH VOLTAGE
BANKIN
ZP1-1
F
ZP1-3
ZP1-6
ZP1-7
CN751
1
32
R7507
R7506
Q7506
C7509
Q7504
Q7503
R7502
C7504
R7501
R7509
R7510
0.375A
F7501
C7501
ZP3-1
TL7501
T7501
CN753
ZP3-2
2
1
TL7502
ZP4-5
F
F751
0.2A
L751
CN754
6
1
ZP4-1
R751
Q7501
C7503
Q7502
R7508
R7504
C7506
C7508
Q7505
C7507
R7505
R7503
ZP1-4
F751
IC751
5
6
10
1
L752
1
24
CN752
F7501
R7511
L7502
L7501
C7502
C7505
C7501
C752
D751
C753
C754
TG4

COMPONENT SIDE (A)

03 LCD BL PWB

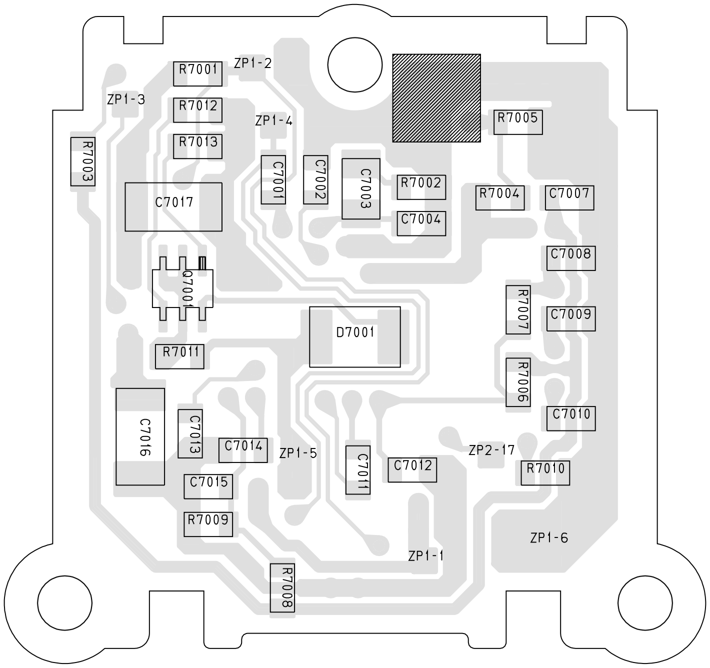
YB10325-01-03



4.6 B/W VF CIRCUIT BOARD

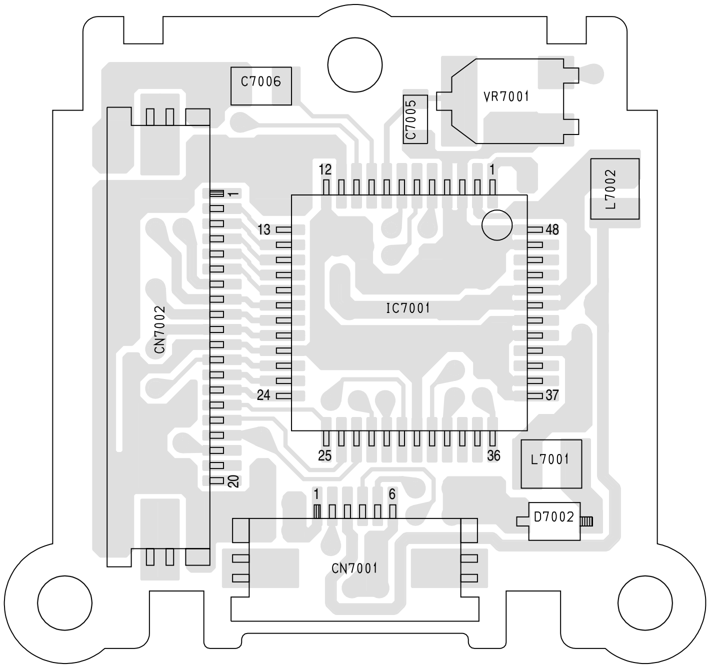
FOIL SIDE (B)

0 8 B/W VF PWB
YB20910


R7001
ZP1-2
ZP1-3
R7012
ZP1-4
R7005
R7013
R7003
C7001
C7002
C7003
R7002
R7004
C7007
C7017
C7004
C7008
Q7001
R7007
C7009
D7001
R7011
R7006
C7010
C7016
C7013
C7014
ZP1-5
C7011
C7012
ZP2-17
R7010
C7015
R7009
ZP1-6
ZP1-1
R7008

COMPONENT SIDE (A)

0 8 B/W VF PWB
YB20910


C7006
VR7001
C7005
12
1
L7002
1
13
48
IC7001
CN7002
24
37
25
36
L7001
20
1
6
D7002
CN7001

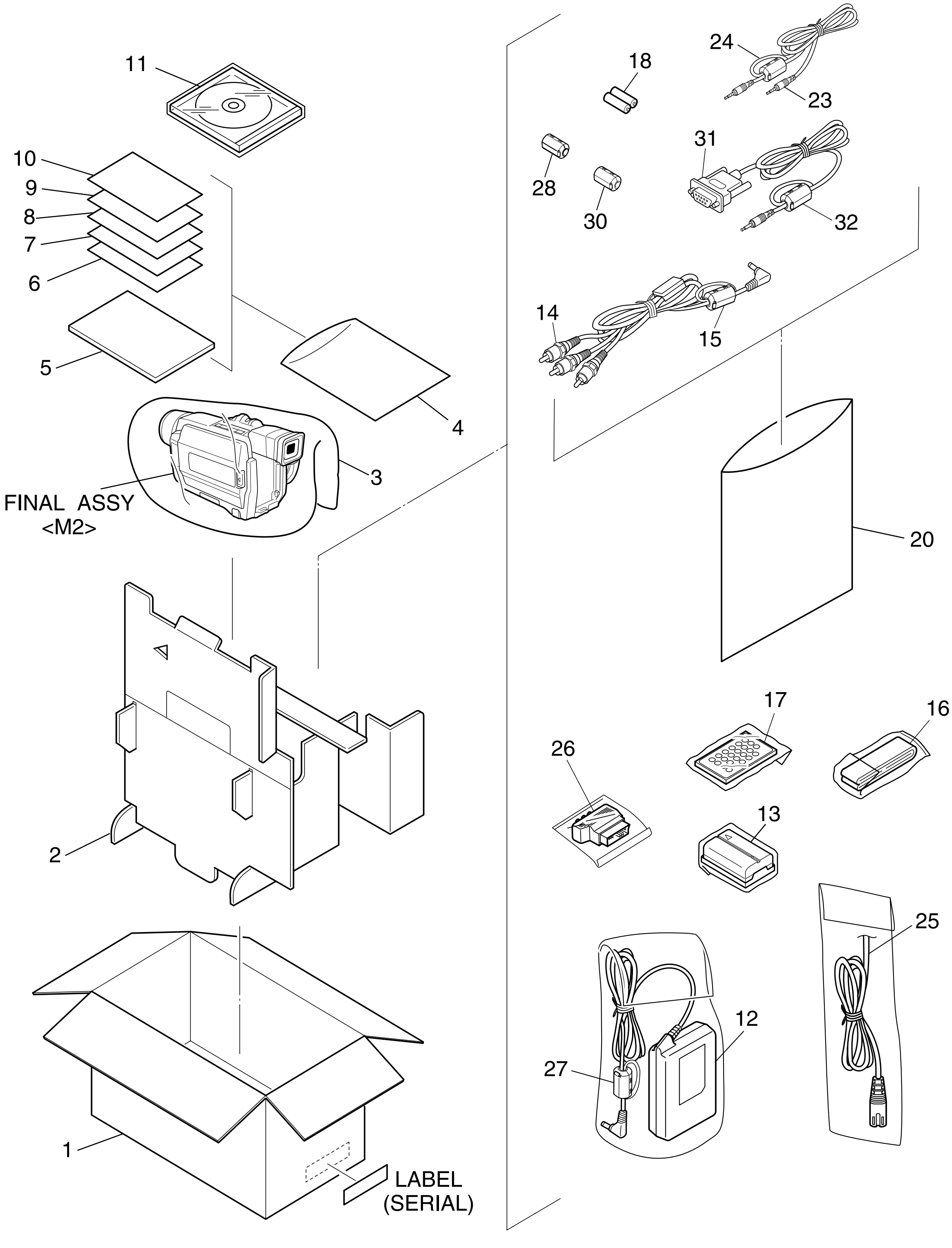
SECTION 5
PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

5.1 PACKING AND ACCESSORY ASSEMBLY <M1>

The instruction manual to be provided with this product will differ according to the destination.



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3
FINAL ASSY
<M2>
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LABEL
(SERIAL)
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****

PACKING AND ACCESSORY ASSEMBLY <M1>

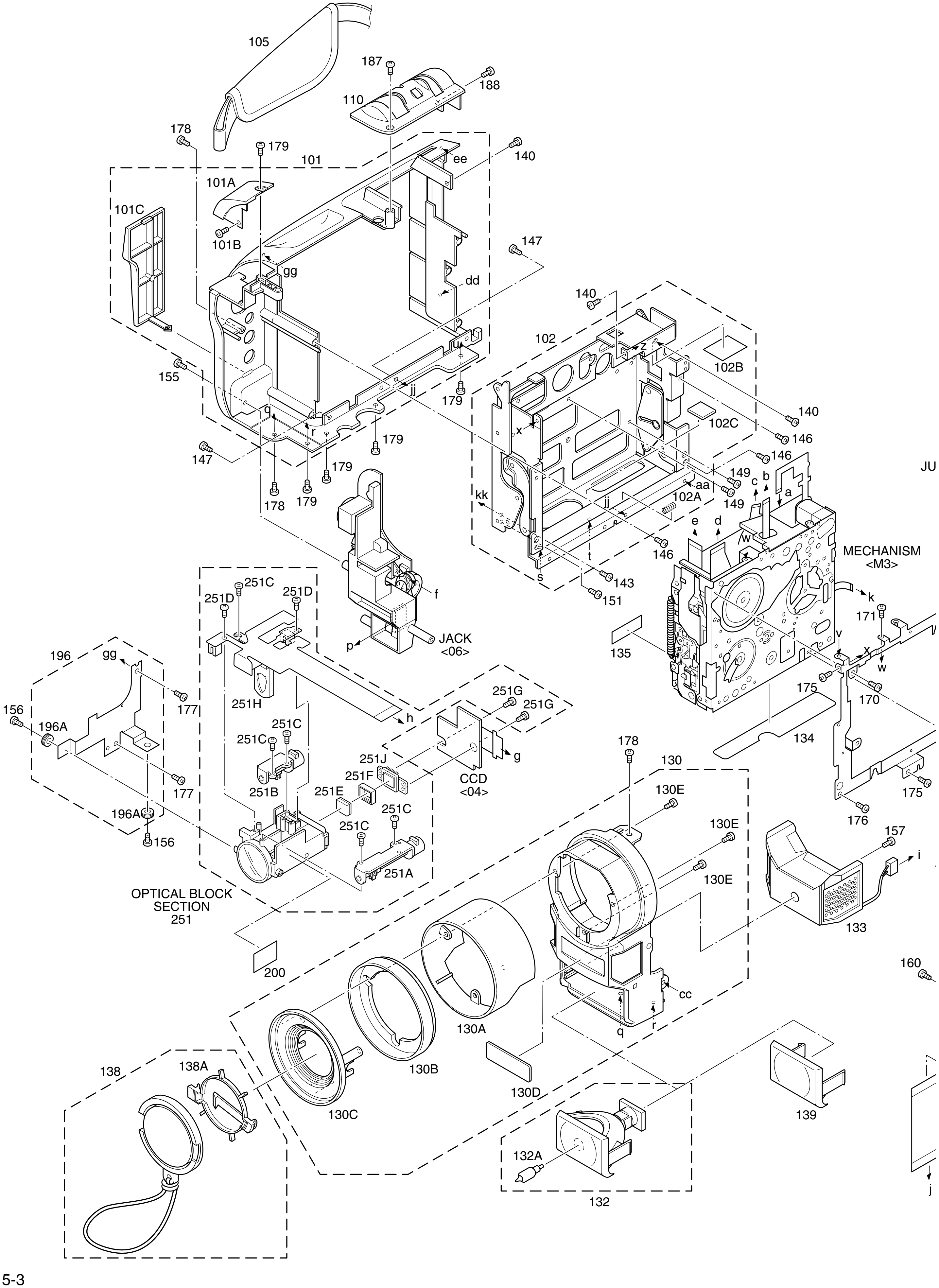
# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	1	LY32095-001A	PACKING CASE,D
		LY32095-003A	PACKING CASE,A
		LY32095-007A	PACKING CASE,B,C
	2	LY32096-001A	CUSHION
	3	LY30023-008A	POLY BAG
	4	QPA02003006	POLY BAG,A,B,D
		YQM30061-3	POLY BAG,C
⚠	5	LYT0728-001A	INST.BOOK(EN),D
⚠		LYT0727-002B	INST.BOOK(GE),B
⚠		LYT0727-003B	INST.BOOK(FR),B
⚠		LYT0727-004A	INST.BOOK(DU),B
⚠		LYT0727-005B	INST.BOOK(SP),B
⚠		LYT0727-006A	INST.BOOK(IT),B
⚠		LYT0727-007A	INST.BOOK(DA),B
⚠		LYT0727-008A	INST.BOOK(FI),B
⚠		LYT0727-009A	INST.BOOK(SW),B
⚠		LYT0727-010A	INST.BOOK(NO),B
⚠		LYT0727-011A	INST.BOOK(RU),B
⚠		LYT0727-012A	INST.BOOK(CZ),B
⚠		LYT0727-013A	INST.BOOK(PO),B
⚠		LYT0727-014A	INST.BOOK(HU),B
⚠		LYT0747-002B	INST.BOOK(GE),A
⚠		LYT0747-003A	INST.BOOK(IT),A
⚠		LYT0747-004A	INST.BOOK(DA),A
⚠		LYT0747-005A	INST.BOOK(FI),A
⚠		LYT0747-006A	INST.BOOK(SW),A
⚠		LYT0747-007A	INST.BOOK(NO),A
⚠		LYT0747-009A	INST.BOOK(SP),A
⚠		LYT0813-001A	INST.BOOK(EN),C
⚠	6	LYT0737-001A	INST.BOOK(SOFT.5LANG),B
⚠		LYT0737-002A	INST.BOOK(SOFT.5LANG),B
⚠		LYT0737-003A	INST.BOOK(SOFT.RU),B
⚠		LYT0501-001A	INST.BOOK(SOFT.SETUP),C,D
	7	LYT0378-003A	SHEET(AGREMENT),B,C,D
	8	LYT0194-001B	Q.CARD(JUK),C,D
	9	BT-54008-2	GUARANTY CARD,C,D
		BT-54013-2	WARRANTY CARD,A,B
	10	LYT0747-008A	SHEET(CORR),A
	11	LY32210-002B	CD ROM,B,C,D
⚠	12	LY20688-013A	AC ADAPTER,AP-V10EG
⚠	13	LY31587-001A	BATTERY PACK,BN-V408U
	14	QAM0212-001	CABLE ASSY,AUDIO/VIDEO CABLE
	15	QQR0918-002	CORE FILTER
	16	LY20186-001A	SHOULDER STRAP
	17	LY20750-001A	REMOTE CONTROL UNIT,RM-V717U,B,C,D
	18	—	BATTERY,AAA(R03),X2,B,C,D
	20	QPA01703005	POLY BAG
	23	QAM0214-001	RM CABLE,B,C,D
	24	QQR0491-002	CORE FILTER
⚠	25	QMPL120-190-JR	POWER CORD,A,B
⚠		QMPP110-190-JR	POWER CORD,C,D
	26	QAM0302-001	ADAPTER PLUG
	27	QQR0490-002	CORE FILTER
	28	QQR0918-002	CORE FILTER
	30	QQR0491-002	CORE FILTER
	31	QAM0084-001	PC CABLE,B,C,D
	32	QQR0491-002	CORE FILTER,B,C,D

- **INSTRUCTIONS**

EN .... ENGLISH
GE ...... GERMAN
FR .... FRENCH
DU ...... DUTCH
SP .... SPANISH
IT .... ITALIAN
DA .... DANISH
FI .... FINNISH
SW ...... SWEDISH
NO ...... NORWEGIAN
RU .... RUSSIAN
CZ .... CZECH
PO ...... POLISH
HU ...... HUNGARIAN

MODEL	MARK
GR-DVL140EG	A
GR-DVL157EG	B
GR-DVL157EK	C
GR-DVL257EK	D

5.2 FINAL ASSEMBLY <M2>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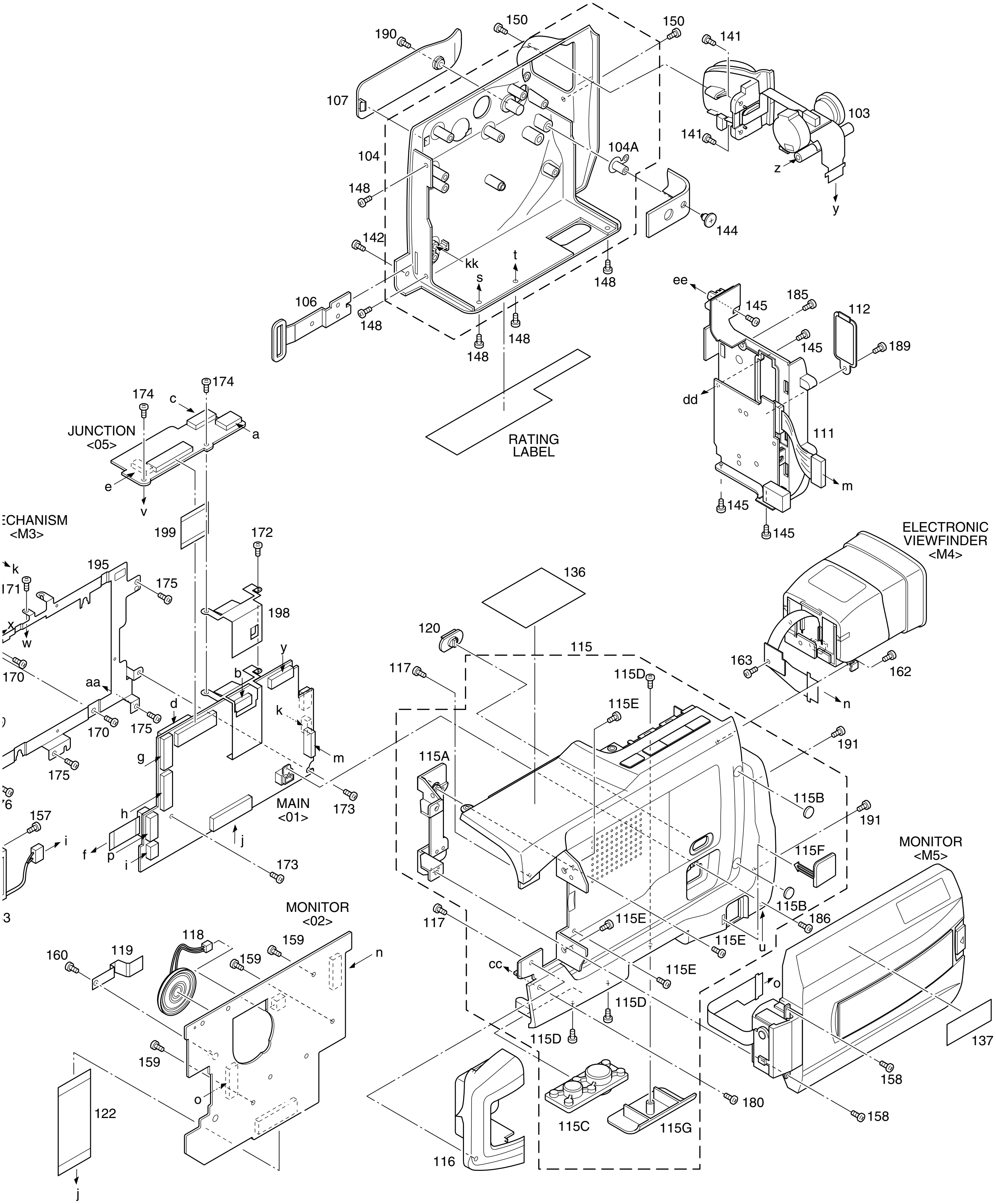
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119
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cc
115E
o
115D
115D
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o
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115C
115G
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j

****

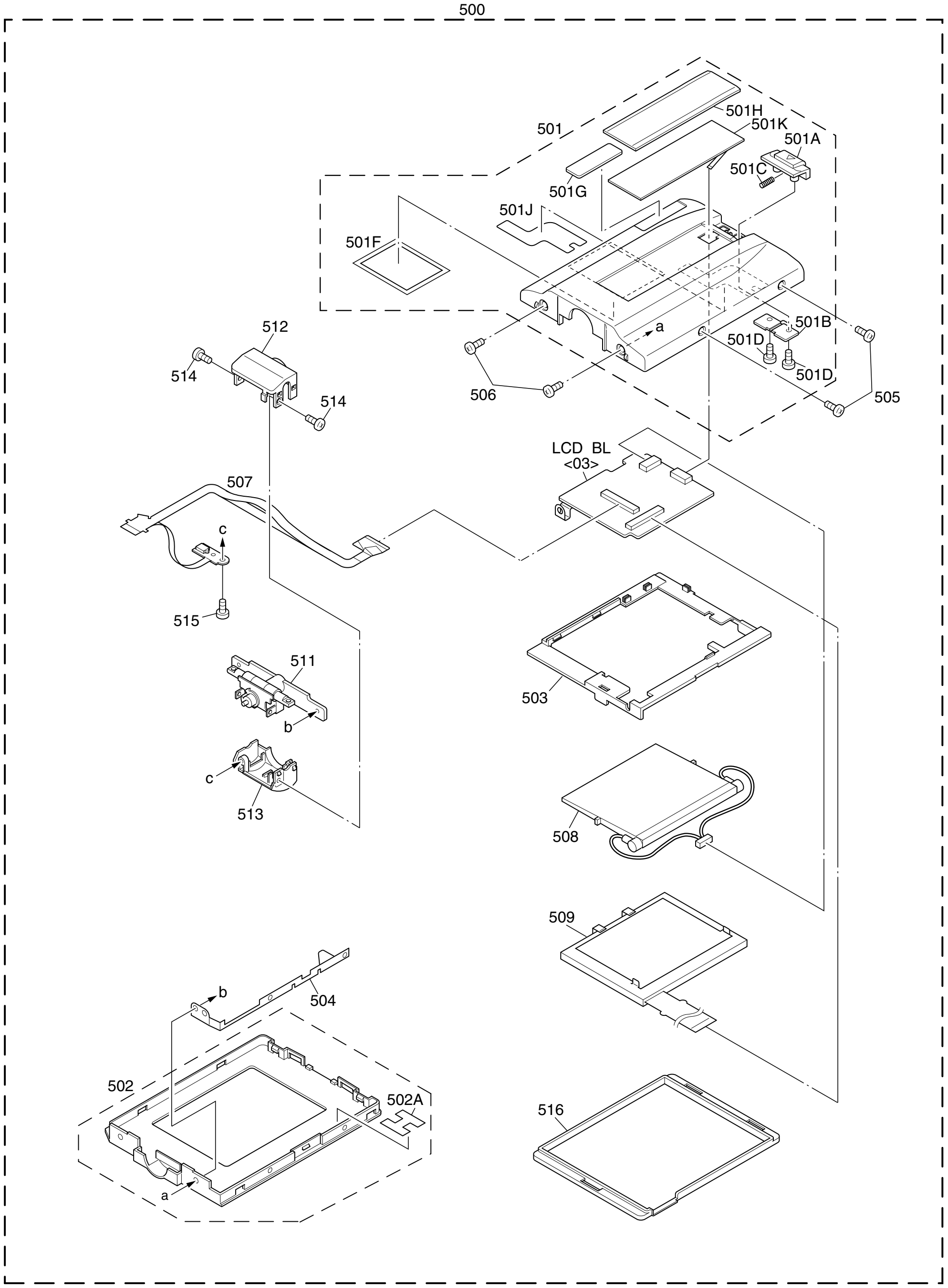
FINAL ASSEMBLY <M2>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
101	LY20706-001C	LOWER CASE ASSY
101A	LY32098-001A	WINDOW(IR)
101B	LY30018-063A	SPECIAL SCREW
101C	LY32099-001C	COVER(JACK)
102	LY20697-001A	ARM ASSY,A
	LY20697-001B	ARM ASSY,B,C
102A	LY30001-023A	TENSION SPRING
102B	LY30029-0C7A	SPACER(A)
102C	LY30029-0E9A	SPACER(A)
103	LY20693-001A	ZOOM UNIT
104	LY20704-001A	CASSETTE COVER ASSY
104A	LY40592-001A	CAP(GRIP BELT)
105	LY20575-004B	GRIP BELT
106	LY42891-001A	HOOK(GRIP)
107	LY32092-013A	COVER(AJUST)
110	LY32093-001A	COVER(ZOOM)ASSY
111	LY20725-001A	REAR UNIT
112	LY41691-001A	COVER(JIG)
115	LY20707-003B	UPPER CASE(2.5)ASSY,B,C
	LY20707-011A	UPPER CASE(2.5)ASSY,A
	LY20717-003C	UPPER CASE3/3.5ASSY,D
115A	LY32101-001A	BRACKET
115B	LY40664-001A	SPACER,X2
115C	LY31019-001A	BASE
115D	LY30018-084A	SPECIAL SCREW,X3
115E	LY30018-0A8A	SPECIAL SCREW,X4
115F	LY42866-001A	CAP(DC JACK)
115G	LY32110-001A	COVER
116	LY32106-001A	COVER(HINGE)
117	LY30018-084A	SPECIAL SCREW,X2
118	QAS0048-001	SPEAKER
119	LY42167-001A	PLATE(SPK)
120	LY42919-001A	KNOB(SLIDE)
122	QUQ105-4007AA	FFC WIRE
⚠ 130	LY20711-003A	FRONT COVER ASSY,B,C,D
	LY20711-004A	FRONT COVER ASSY,A
130A	LY32111-002A	HOOD,B,C,D
	LY32111-003A	HOOD,A
130B	LY32112-001A	RING
130C	LY32113-001A	HOOD(SCREW)
130D	LY42953-001A	MARK
130E	LY30018-052A	SPECIAL SCREW,X3
132	LY31617-002A	DC LIGHT ASSY,B,C,D
132A	YQ44266	LAMP,B,C,D
133	LY32114-001A	MICROPHONE
134	LY40698-002A	LABEL(HOUSING)
135	LY40699-002A	LABEL(PUSH)
136	LY43093-002A	STICKER(TOP),A
	LY43093-009A	STICKER(TOP),B,C
	LY43093-010A	STICKER(TOP),D
137	LY43094-001A	STICKER(SIDE),B,C,D
	LY43094-002A	STICKER(SIDE),A
138	LY42182-002A	CAP(HOOD)ASSY
138A	LY31627-001A	SPRING
139	LY31660-003A	COVER(LIGHT),A
140	LY30018-084A	SPECIAL SCREW,X3
141	LY30018-096A	SPECIAL SCREW,X2
142	LY30018-038A	SPECIAL SCREW
143	LY30018-084A	SPECIAL SCREW
144	LY30018-0D1A	SPECIAL SCREW
145	LY30018-084A	SPECIAL SCREW,X4
146	LY30018-084A	SPECIAL SCREW,X3
147	LY30018-038A	SPECIAL SCREW,X2
148	LY30018-038A	SPECIAL SCREW,X5
149	LY30018-084A	SPECIAL SCREW,X2
150	LY30018-084A	SPECIAL SCREW,X2
151	LY30018-023A	SPECIAL SCREW
155	LY30018-084A	SPECIAL SCREW
156	LY30019-029B	SPECIAL SCREW,X2
157	LY30018-023A	SPECIAL SCREW
158	LY30018-0D6A	SPECIAL SCREW,X2,B,C,D
	LY30018-090A	SPECIAL SCREW,X2,A
159	LY30018-023A	SPECIAL SCREW,X3
160	LY30018-006B	SPECIAL SCREW
162	LY30018-063A	SPECIAL SCREW
163	LY30018-064A	SPECIAL SCREW
170	LY30019-026A	SPECIAL SCREW,X2
171	YQ43893-4	MINI SCREW
172	YQ43893-4	MINI SCREW
173	LY30019-033A	SPECIAL SCREW,X2
174	QYSPSPT1730Z	SCREW,X2
175	LY30018-066A	SPECIAL SCREW,X4
176	LY30018-084A	SPECIAL SCREW
177	LY30018-084A	SPECIAL SCREW,X2
178	LY30018-084A	SPECIAL SCREW,X3
179	LY30018-084A	SPECIAL SCREW,X5
180	LY30018-092A	SPECIAL SCREW
185	LY30018-065A	SPECIAL SCREW
186	LY30018-006B	SPECIAL SCREW
187	LY30018-092A	SPECIAL SCREW
188	LY30018-065A	SPECIAL SCREW
189	LY30018-037A	SPECIAL SCREW
190	LY30018-037A	SPECIAL SCREW
191	LY30018-084A	SPECIAL SCREW,X2
195	LY20696-001A	BRACKET(MECHA)
196	LY42846-001A	BRACKET(OP) ASSY,A
	LY42846-001C	BRACKET(OP) ASSY,B,C,D
196A	LY42796-001A	BUSH,X2
198	LY32081-001A	SHIELD PLATE
199	WJT0044-001A	E-CARD WIRE,MAIN CN113-JUNC CN571
200	LY43092-001A	PLATE

– OPTICAL BLOCK SECTION –

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
251	J7A-233A	OPTICAL BLOCK ASSY
251A	LY30723-001B	ZOOM MOTOR
251B	LY30724-001B	FOCUS MOTOR
251C	LY30727-002A	SCREW,X5
251D	LY30727-001A	SCREW,X2
251E	LY42936-001A	OPTICAL LPF
251F	LY31639-001A	SPACER RUBBER
251G	QYSPSGU1750Z	SCREW,X2
251H	LY32160-001A	IRIS MOTOR
251J	YS40168F	CCD BASE ASSY

5.3 MONITOR ASSEMBLY <M5> [GR-DVL257EK]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515
511
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503
508
509
504
b
502
502A
a
516

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION

****

MONITOR ASSEMBLY <M5>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
⚠	500	LYH20246-009A	MONITOR ASSY
⚠	501	LY20721-003A	MONITOR COVER(3.5)ASSY
	501A	LY31620-001A	KNOB(LOCK 1)
	501B	LY42180-001A	KNOB(LOCK 2)
	501C	LY30002-044A	COMPRESSION SPRING
	501D	LY30018-011A	SPECIAL SCREW,X2
	501F	LY40559-001A	SHIELD SHEET
	501G	LY42883-001A	MARK
	501H	LY32121-003A	WINDOW
	501J	LY42386-001A	EARTH MON
	501K	LY42193-001A	EL(WINDOW)

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	502	LY20598-001A	MONITOR CASE ASSY
	502A	LY42388-001A	EARTH MON(2)
	503	LY20567-001A	HOLDER(3PWB)
	504	LY31622-001A	BRACKET(EARTH)
	505	QYSPSPT1730R	SCREW,X2
	506	QYSLSP2040D	SCREW,X2
	507	LY31743-001A	MONITOR FPC ASSY
	508	QLL0094-001	BACK LIGHT
	509	QLD0118-001	LCD MODULE
	511	LY32079-001A	HINGE ASSY
	512	LY32088-001A	HINGE COVER(1)
	513	LY32089-001A	HINGE COVER(2)
	514	LY30018-058A	SPECIAL SCREW,X2
	515	LY30018-023A	SPECIAL SCREW
	516	LY20566-001B	HOLDER(3LCD)

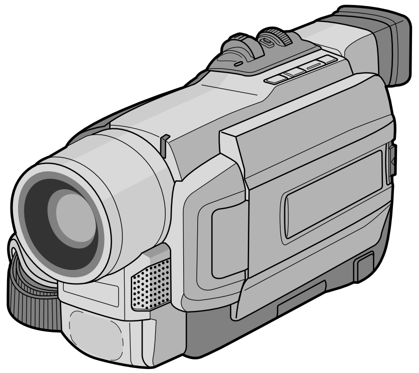
JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

Additional edition

GR-DVL150EG/EK, DVL450EG



Mini DV PAL

**NOTE: This service manual only describes section 4 and 5 that result from the modifications to the Main board assembly.
For other sections, please refer to the No. 86613 service manual for the GR-DVL150EG/EK and DVL450EG model.**

	MAIN BOARD ASSEMBLY		
	GR-DVL150EG	GR-DVL150EK	GR-DVL450EG
Original edition	YB10313PA-03	YB10313PA-04	←
Additional edition	YB10330PA-01	←	←

JVC
VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

S40894

Printed in Japan

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No. 86613B
April 2001

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2. MECHANISM ADJUSTMENT

Refer to MANUAL No. 86613.
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3. ELECTRICAL ADJUSTMENT

Refer to MANUAL No. 86613.
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Section Title Page

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The following table lists the differing points between Models GR-DVL150EG/EK and GR-DVL450EG in this series.

	GR-DVL150EG	GR-DVL150EK	GR-DVL450EG
VIEW FINDER	B/W	B/W	COLOR
LCD MONITOR	2.5”	2.5”	3.5”
CD ROM	OPTIONAL	OPTIONAL	PROVIDE
AC ADAPTER	AP-V10EG	AP-V10EK	AP-V10EG
PC CONNECTION CABLE	OPTIONAL	OPTIONAL	PROVIDE

SECTION 4
CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

> **Safety precautions**
> **The Components identified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.**

1. Units of components on the schematic diagram

Unless otherwise specified.

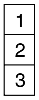
1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ (1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in µF, (P: PF).
3) All inductance values are in µH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

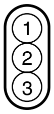
AUX : Active at high.

$\overline{\text{AUX}}$ or AUX(L) : Active at low.

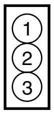
3. Interpreting Connector indications



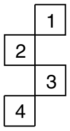
Removable connector



Wire soldered directly on board



Non-removable Board connector



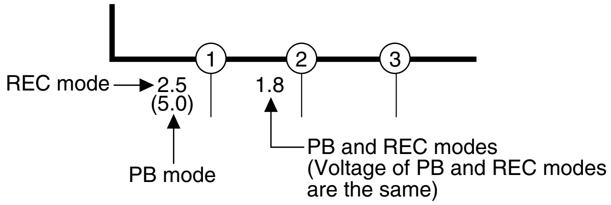
Board to Board

→
←
↔

Connected pattern on board
The arrows indicate signal path

4. Voltage measurement

1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
4) Indication on schematic diagram
   Voltage Indications for REC and PB mode on the schematic diagram are as shown below.



Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

5. Signal path Symbols

The arrows indicate the signal path as follows.

NOTE : The arrow is DVC unique object.

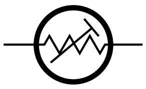
⇨	Playback signal path
➡	Playback and recording signal path
➡	Recording signal path (including E-E signal path)
⇨▷	Capstan servo path
➡▶	Drum servo path

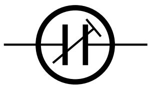
(Example)

⇨	R-Y	Playback R-Y signal path
➡	Y	Recording Y signal path

6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.





7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.

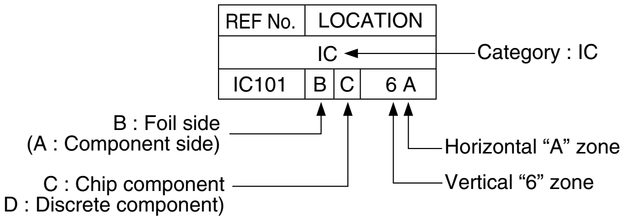
CIRCUIT BOARD NOTES

1. Foil and Component sides

1) Foil side (B side) :
   Parts on the foil side seen from foil face (pattern face) are indicated.
2) Component side (A side) :
   Parts on the component side seen from component face (parts face) indicated.

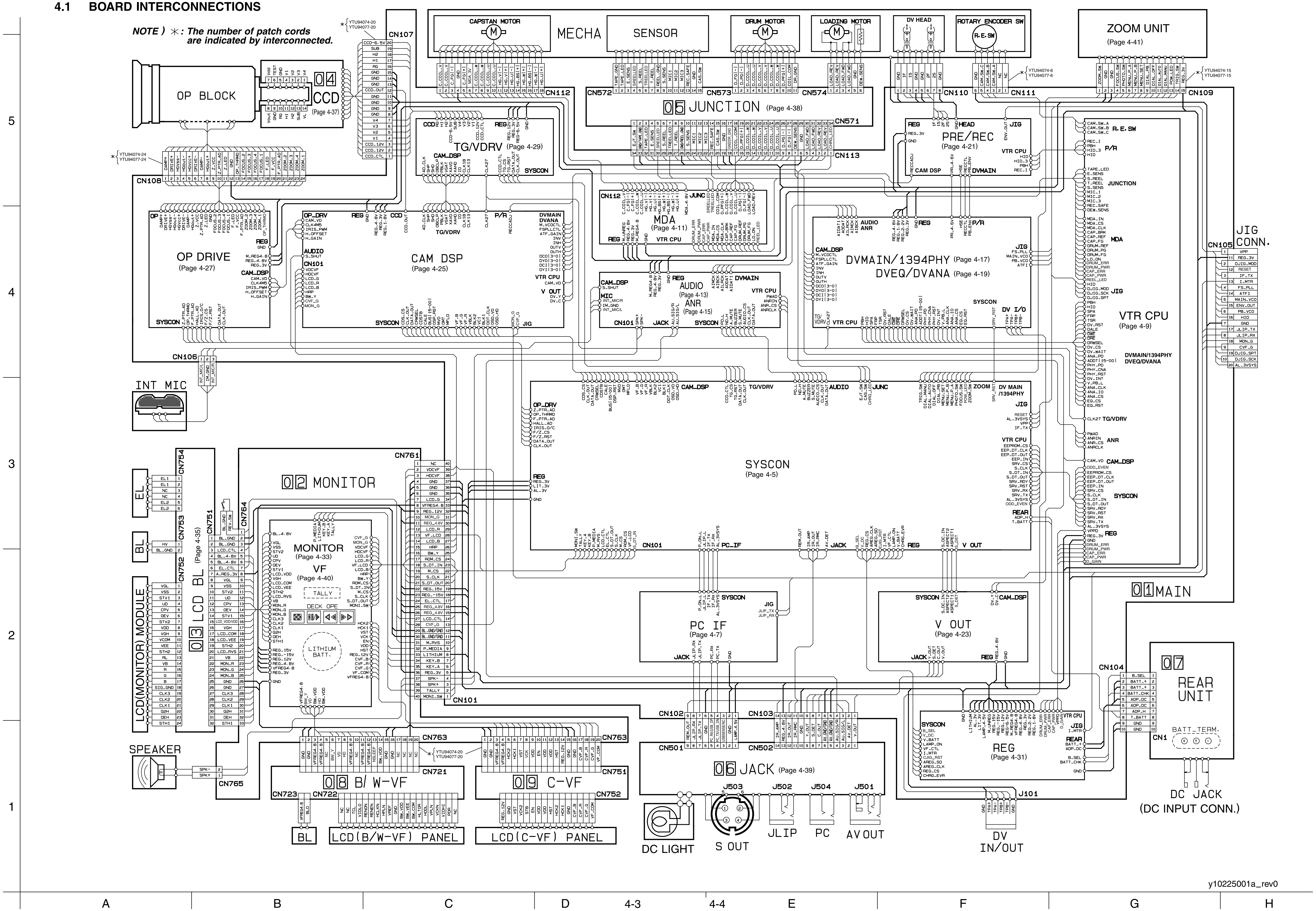
2. Parts location guides

Parts location are indicated by guide scale on the circuit board.


REF No.
LOCATION
IC
Category : IC
IC101
B
C
6 A
B : Foil side
(A : Component side)
C : Chip component
D : Discrete component)
Horizontal "A" zone
Vertical "6" zone

Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

4.1 BOARD INTERCONNECTIONS



NOTE) ＊: The number of patch cords are indicated by interconnected.

OP BLOCK
04 CCD (Page 4-37)
CN107
YTU94074-20
YTU94077-20
YTU94074-24
YTU94077-24
CN108
OP DRIVE (Page 4-27)
TG/VDRV (Page 4-29)
CAM DSP (Page 4-25)
CN106
INT MIC
MECHA
CAPSTAN MOTOR
SENSOR
DRUM MOTOR
LOADING MOTOR
DV HEAD
ROTARY ENCODER SW
R.E.SW
YTU94074-6
YTU94077-6
CN112
CN572
CN573
CN574
CN571
CN113
CN110
CN111
CN109
05 JUNCTION (Page 4-38)
ZOOM UNIT (Page 4-41)
YTU94074-15
YTU94077-15
PRE/REC (Page 4-21)
MDA (Page 4-11)
AUDIO (Page 4-13)
ANR (Page 4-15)
DVMAIN/1394PHY (Page 4-17)
DVEQ/DVANA (Page 4-19)
VTR CPU (Page 4-9)
JIG CONN.
CN105
SYSCON (Page 4-5)
01 MAIN
PC IF (Page 4-7)
V OUT (Page 4-23)
CN101
CN761
02 MONITOR
MONITOR (Page 4-33)
VF (Page 4-40)
TALLY
DECK OPE
LITHIUM BATT.
EL
CN754
BL
CN753
CN752
CN751
03 LCD BL (Page 4-35)
LCD(MONITOR) MODULE
CN764
SPEAKER
CN765
CN763
YTU94074-20
YTU94077-20
CN721
08 B/ W-VF
CN723
CN722
BL
LCD(B/W-VF) PANEL
09 C-VF
CN751
CN752
LCD(C-VF) PANEL
CN102
CN103
CN501
CN502
06 JACK (Page 4-39)
J503
J502
J504
J501
DC LIGHT
S OUT
JLIP
PC
AV OUT
J101
DV IN/OUT
REG (Page 4-31)
CN104
07 REAR UNIT
CN1
BATT_TERM.
DC JACK (DC INPUT CONN.)

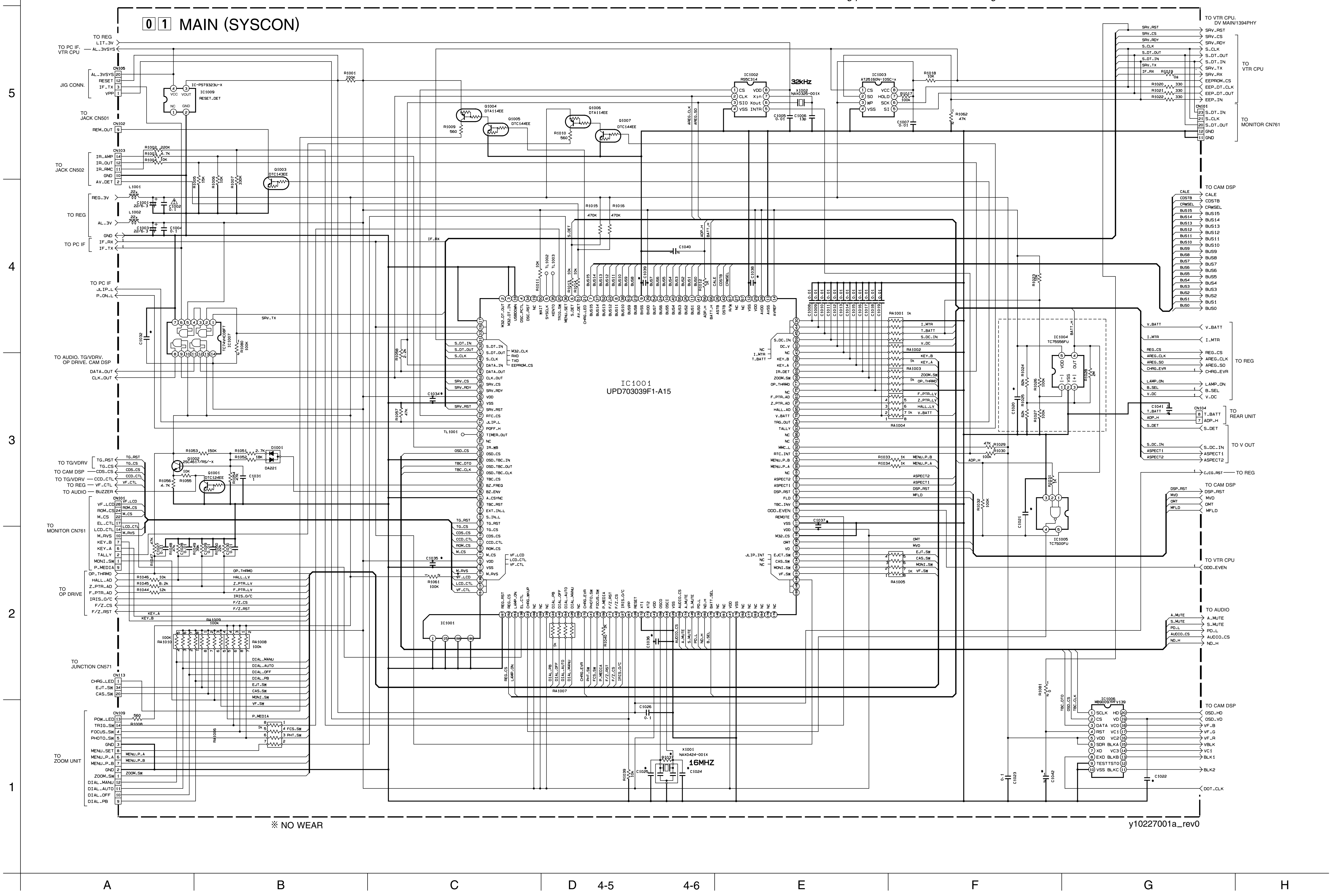
5
4
3
2
1

A B C D E F G H

y10225001a_rev0

4.2 SYSCON SCHEMATIC DIAGRAM

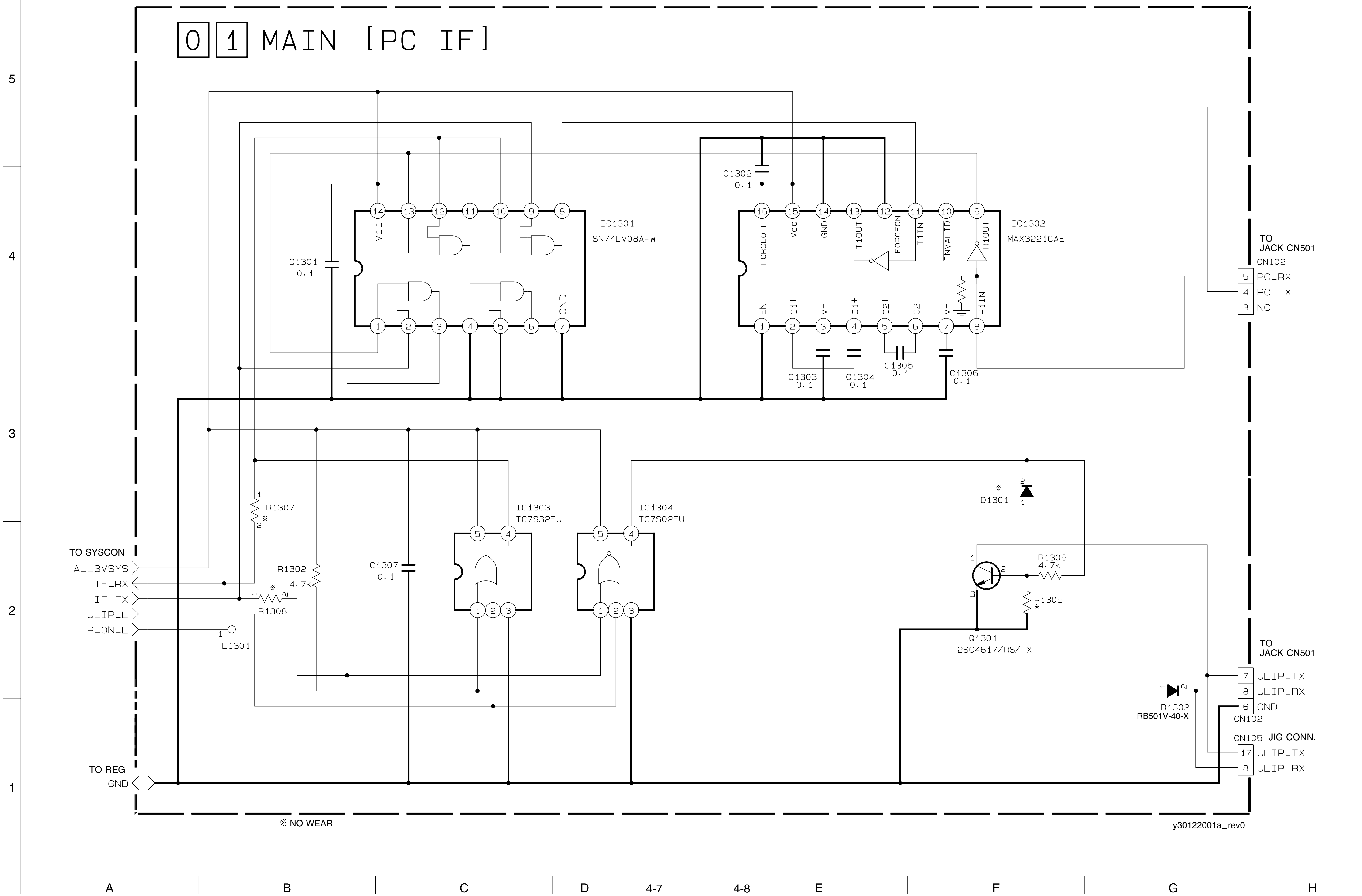
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



01 MAIN (SYSCON)
IC1001
UPD703039F1-A15
IC1002 RS5C314
32kHz
X1002 NAX0325-001X
IC1003 AT25160N-10SC-x
IC1004 TC75S56FU
IC1005 TC7S00FU
IC1006 MB90097PFV139
IC1007 TC74VHC08FT
IC1009 IC-PST9323U-X RESET_DET
X1001 NAX0424-001X
16MHZ
Q1001 DTC124EE
Q1002 2SC4617/RS/-X
Q1003 DTC143EE
Q1004 DTA114EE
Q1005 DTC144EE
Q1006 DTA114EE
Q1007 DTC144EE
D1001 DA221
TO REG
TO PC IF, VTR CPU
JIG CONN.
TO JACK CN501
TO JACK CN502
TO PC IF
TO AUDIO, TG/VDRV, OP DRIVE, CAM DSP
TO TG/VDRV
TO CAM DSP
TO AUDIO
TO MONITOR CN761
TO OP DRIVE
TO JUNCTION CN571
TO ZOOM UNIT
TO VTR CPU, DV MAIN/1394PHY
TO VTR CPU
TO CAM DSP
TO REAR UNIT
TO V OUT
TO AUDIO
※ NO WEAR
y10227001a_rev0
1
2
3
4
5
A
B
C
D
E
F
G
H

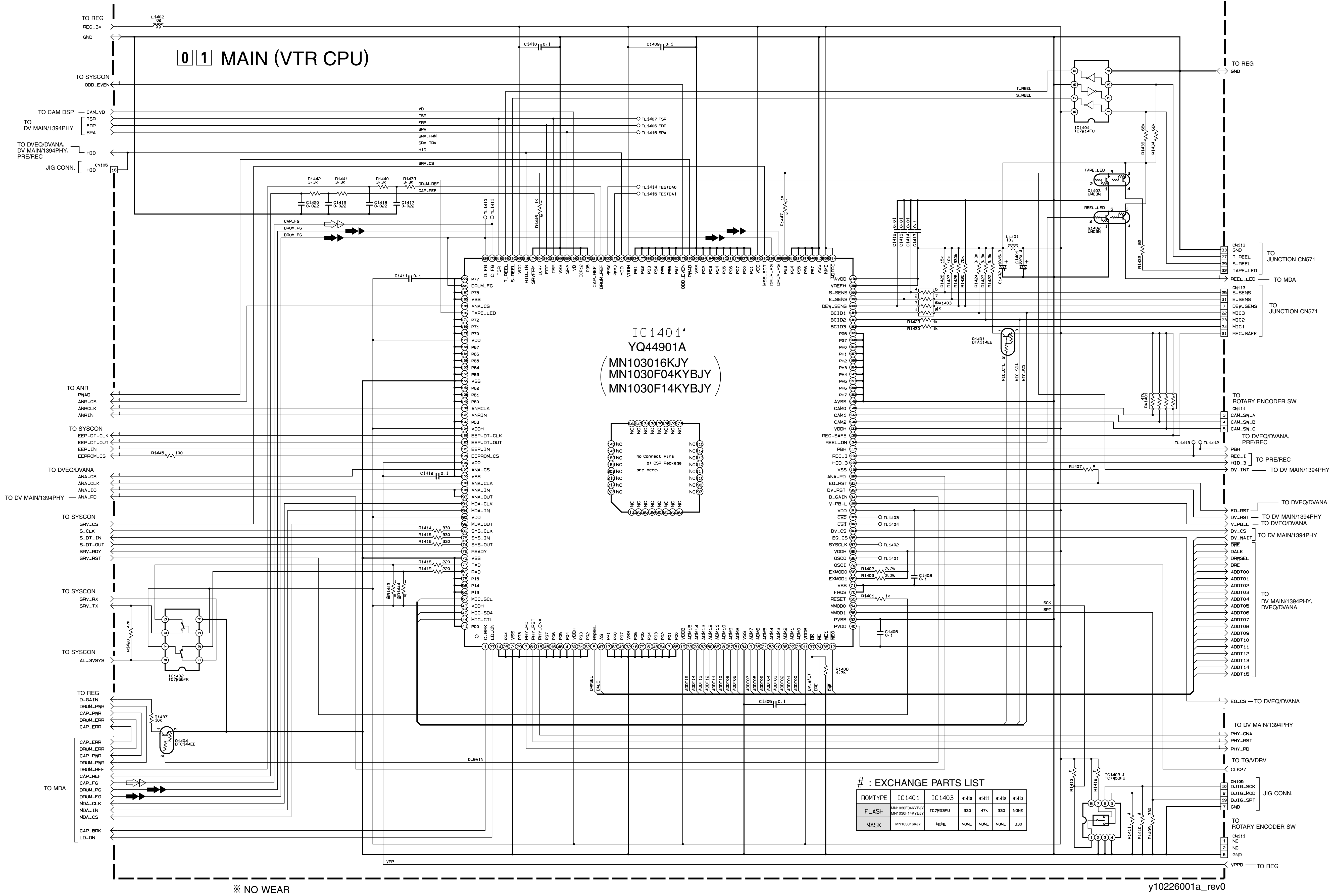
4.3 PC IF SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*


0 1 MAIN [PC IF]
IC1301
SN74LV08APW
VCC
GND
C1301
0.1
IC1302
MAX3221CAE
FORCEOFF
Vcc
GND
T1OUT
FORCEON
T1IN
INVALID
R1OUT
EN
C1+
V+
C1+
C2+
C2-
V-
R1IN
C1302
0.1
C1303
0.1
C1304
0.1
C1305
0.1
C1306
0.1
TO
JACK CN501
CN102
5 PC_RX
4 PC_TX
3 NC
TO SYSCON
AL_3VSYS
IF_RX
IF_TX
JLIP_L
P_ON_L
TL1301
R1307
R1302
4.7K
R1308
C1307
0.1
IC1303
TC7S32FU
IC1304
TC7S02FU
D1301
R1306
4.7K
R1305
Q1301
2SC4617/RS/-X
TO
JACK CN501
7 JLIP_TX
8 JLIP_RX
6 GND
CN102
D1302
RB501V-40-X
CN105 JIG CONN.
17 JLIP_TX
8 JLIP_RX
TO REG
GND
※ NO WEAR
y30122001a_rev0
1
2
3
4
5
A
B
C
D
E
F
G
H

4.4 VTR CPU SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



01 MAIN (VTR CPU)
IC1401
YQ44901A
MN103016KJY
MN1030F04KYBJY
MN1030F14KYBJY
No Connect Pins of CSP Package are here.
TO REG
REG_3V
GND
TO SYSCON
ODD_EVEN
TO CAM DSP
CAM_VD
TO DV MAIN/1394PHY
TSR
FRP
SPA
TO DVEQ/DVANA, DV MAIN/1394PHY, PRE/REC
HID
JIG CONN.
CN105
TO ANR
PWAD
ANR_CS
ANRCLK
ANRIN
EEP_DT_CLK
EEP_DT_OUT
EEP_IN
EEPROM_CS
TO DVEQ/DVANA
ANA_CS
ANA_CLK
ANA_IO
ANA_PD
SRV_CS
S_CLK
S_DT_IN
S_DT_OUT
SRV_RDY
SRV_RST
SRV_RX
SRV_TX
AL_3VSYS
IC1402 TC7W66FK
D_GAIN
DRUM_PWR
CAP_PWR
DRUM_ERR
CAP_ERR
Q1404 DTC144EE
TO MDA
DRUM_REF
CAP_REF
CAP_FG
DRUM_PG
DRUM_FG
MDA_CLK
MDA_IN
MDA_CS
CAP_BRK
LD_ON
IC1404 TC7W14FU
T_REEL
S_REEL
TAPE_LED
REEL_LED
Q1403 UMC3N
Q1402 UMC3N
CN113
TO JUNCTION CN571
S_SENS
E_SENS
DEW_SENS
MIC3
MIC2
MIC1
REC_SAFE
RA1403
Q1401 DTA114EE
MIC_CTL
MIC_SDA
MIC_SCL
TO ROTARY ENCODER SW
CN111
CAM_SW_A
CAM_SW_B
CAM_SW_C
TO DVEQ/DVANA, PRE/REC
PBH
REC_I
HID_3
TO PRE/REC
DV_INT
EQ_RST
DV_RST
V_PB_L
DV_CS
DV_WAIT
DWE
DALE
DRWSEL
DRE
ADDT00–ADDT15
TO DV MAIN/1394PHY, DVEQ/DVANA
EQ_CS
PHY_CNA
PHY_RST
PHY_PD
TO TG/VDRV
CLK27
DJIG_SCK
DJIG_MOD
DJIG_SPT
IC1403 TC7W53FU
NC
VPPD
VPP
TL1402
TL1403
TL1404
TL1405
TL1406
TL1407
TL1410
TL1411
TL1412
TL1413
TL1414 TESTDA0
TL1415 TESTDA1
TL1416 SPA
L1401
L1402
C1405 0.1
C1406 0.1
C1408 0.1
C1409 0.1
C1410 0.1
C1411 0.1
C1412 0.1

: EXCHANGE PARTS LIST

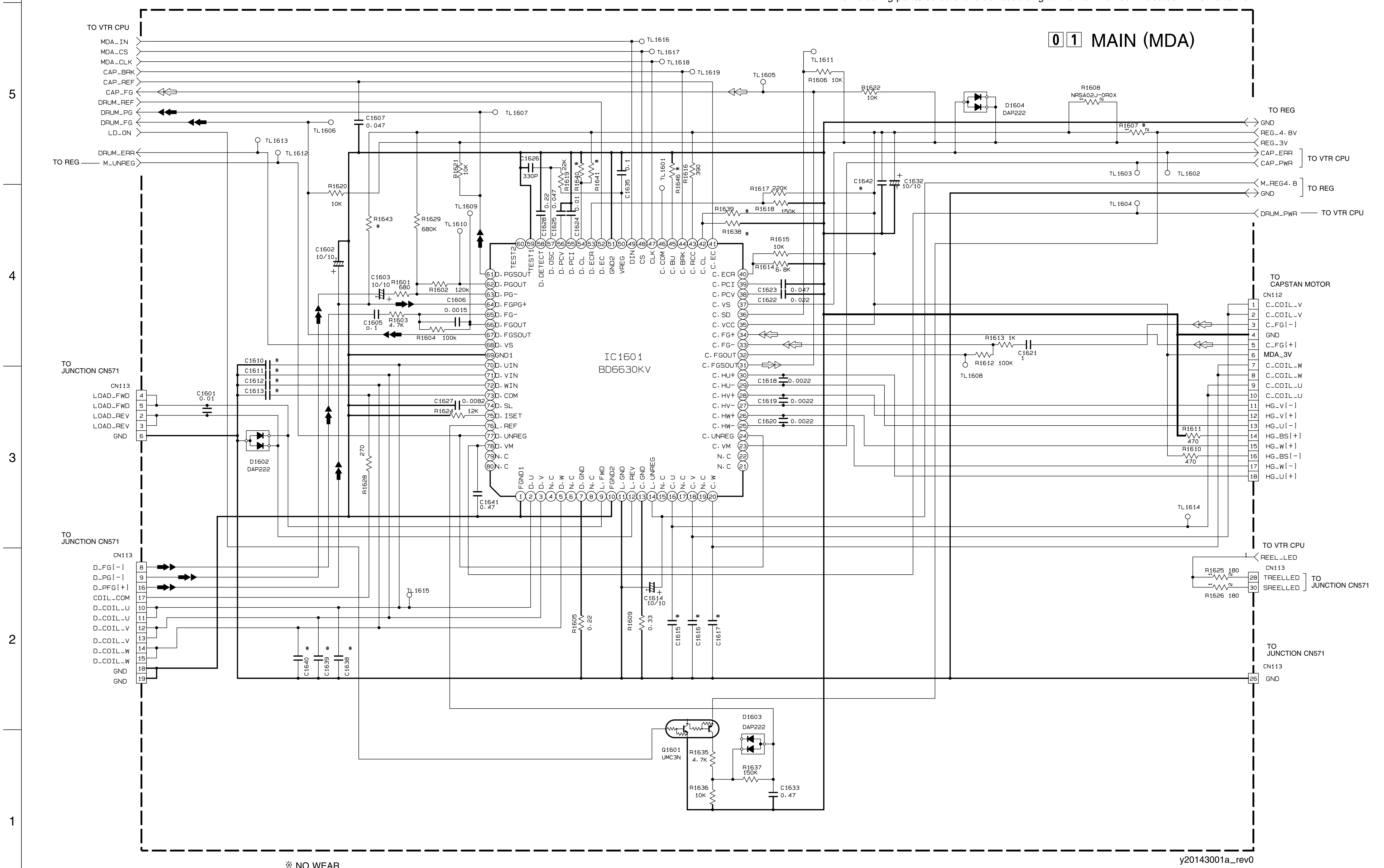
ROMTYPE	IC1401	IC1403	R1410	R1411	R1412	R1413
FLASH	MN1030F04KYBJY MN1030F14KYBJY	TC7W53FU	330	47k	330	NONE
MASK	MN103016KJY	NONE	NONE	NONE	NONE	330

※ NO WEAR

y10226001a_rev0

4.5 MDA SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



01 MAIN (MDA)
TO VTR CPU
MDA_IN
MDA_CS
MDA_CLK
CAP_BRK
CAP_REF
CAP_FG
DRUM_REF
DRUM_PG
DRUM_FG
LD_ON
DRUM_ERR
TO REG
M_UNREG
TL1616
TL1617
TL1618
TL1619
TL1605
TL1611
TL1607
TL1606
TL1613
TL1612
TL1609
TL1610
TL1601
TL1603
TL1602
TL1604
TL1608
TL1614
TL1615
R1606 10K
R1622 10K
R1608 NRSA02J-0R0X
R1607
D1604 DAP222
C1607 0.047
C1626 330P
R1621 10K
R1620 10K
R1643
R1629 680K
C1602 10/10
C1603 10/10
R1601 680
R1602 120k
C1606 0.0015
C1605 0.1
R1603 4.7K
R1604 100k
C1628 0.22
C1625 0.047
R1619 22K
R1640
R1641
C1624 0.01
C1635 0.1
R1646
R1616 390
R1617 220K
R1618 150K
R1639
R1638
C1642
C1632 10/10
R1615 10K
R1614 6.8K
C1623 0.047
C1622 0.022
C1618 0.0022
C1619 0.0022
C1620 0.0022
R1613 1K
C1621 1
R1612 100K
C1610
C1611
C1612
C1613
C1627 0.0082
R1624 12K
R1628 270
C1641 0.47
C1601 0.01
D1602 DAP222
IC1601
BD6630KV
TEST2
TEST1
D.DETECT
D.OSC
D.PCV
D.PCI
D.CL
D.ECR
D.EC
GND2
VREG
DIN
CS
CLK
C.COM
C.BU
C.BRK
C.RCC
C.CL
C.EC
61 D.PGSOUT
62 D.PGOUT
63 D.PG-
64 D.FGPG+
65 D.FG-
66 D.FGOUT
67 D.FGSOUT
68 D.VS
69 GND1
70 D.UIN
71 D.VIN
72 D.WIN
73 D.COM
74 D.SL
75 D.ISET
76 L.REF
77 D.UNREG
78 D.VM
79 N.C
80 N.C
C.ECR 40
C.PCI 39
C.PCV 38
C.VS 37
C.SD 36
C.VCC 35
C.FG+ 34
C.FG- 33
C.FGOUT 32
C.FGSOUT 31
C.HU+ 30
C.HU- 29
C.HV+ 28
C.HV- 27
C.HW+ 26
C.HW- 25
C.UNREG 24
C.VM 23
N.C 22
N.C 21
FGND1
D.U
D.V
N.C
D.W
N.C
D.GND
N.C
L.FWD
FGND2
L.GND
L.REV
C.GND
L.UNREG
N.C
C.U
N.C
C.V
N.C
C.W
TO REG
GND
REG_4.8V
REG_3V
CAP_ERR
CAP_PWR
TO VTR CPU
M_REG4.8
GND
TO REG
DRUM_PWR
TO VTR CPU
TO CAPSTAN MOTOR
CN112
1 C_COIL_V
2 C_COIL_V
3 C_FG(-)
4 GND
5 C_FG(+)
6 MDA_3V
7 C_COIL_W
8 C_COIL_W
9 C_COIL_U
10 C_COIL_U
11 HG_V(-)
12 HG_V(+)
13 HG_U(-)
14 HG_BS(+)
15 HG_W(+)
16 HG_BS(-)
17 HG_W(-)
18 HG_U(+)
R1611 470
R1610 470
TO JUNCTION CN571
CN113
LOAD_FWD 4
LOAD_FWD 5
LOAD_REV 2
LOAD_REV 3
GND 6
TO JUNCTION CN571
CN113
D_FG(-) 8
D_PG(-) 9
D_PFG(+) 16
COIL_COM 17
D_COIL_U 10
D_COIL_U 11
D_COIL_V 12
D_COIL_V 13
D_COIL_W 14
D_COIL_W 15
GND 18
GND 19
C1640
C1639
C1638
C1614 10/10
R1605 0.22
R1609 0.33
C1615
C1616
C1617
TO VTR CPU
REEL_LED
CN113
R1625 180
R1626 180
28 TREELLED
30 SREELLED
TO JUNCTION CN571
TO JUNCTION CN571
CN113
26 GND
Q1601 UMC3N
D1603 DAP222
R1635 4.7K
R1637 150K
R1636 10K
C1633 0.47
A
B
C
D
E
F
G
H
1
2
3
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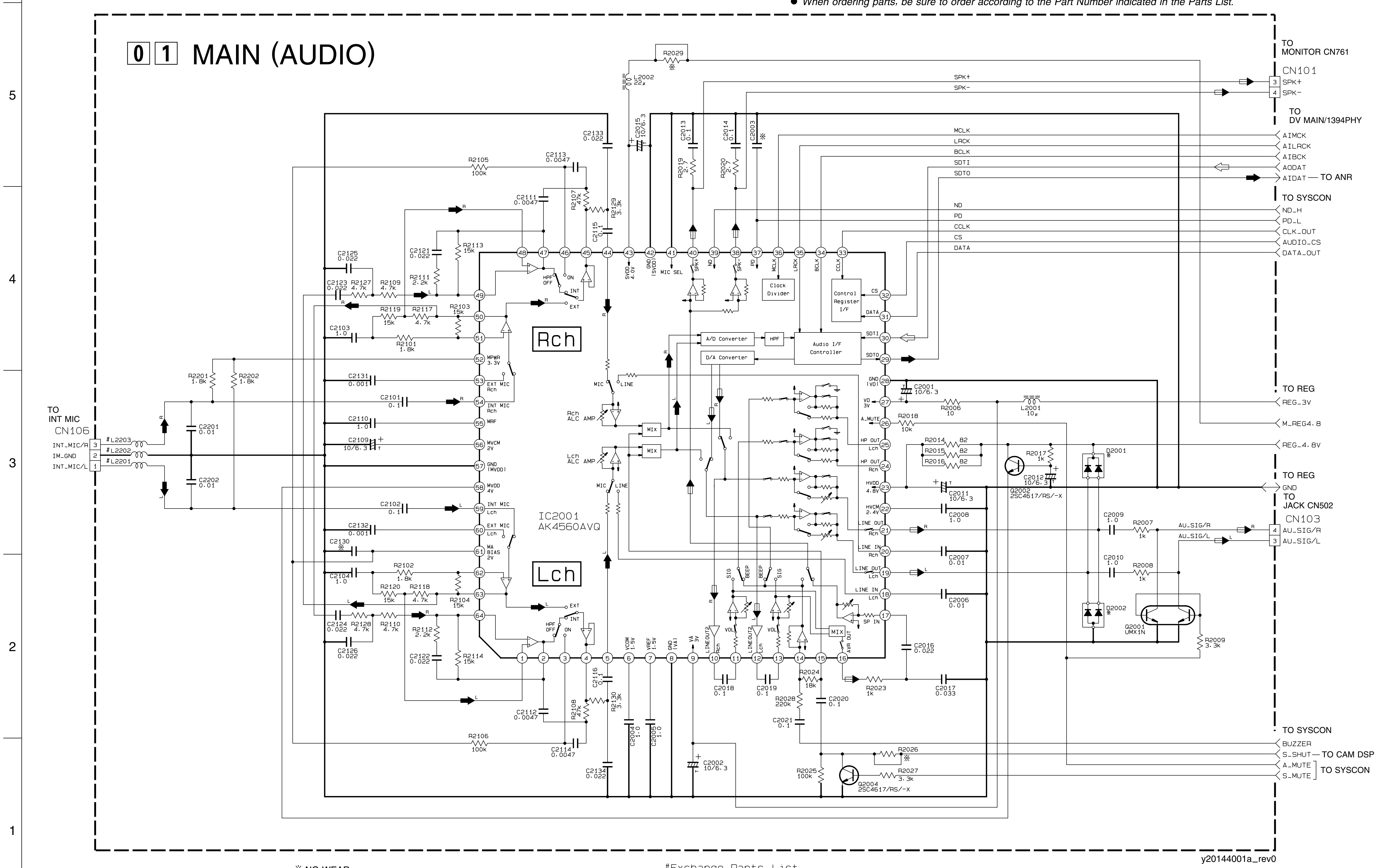
5

※ NO WEAR

y20143001a_rev0

4.6 AUDIO SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



01 MAIN (AUDIO)
IC2001
AK4560AVQ
Rch
Lch
TO INT MIC
CN106
INT_MIC/R
IM_GND
INT_MIC/L
#L2203
#L2202
#L2201
R2201 1.8k
R2202 1.8k
C2201 0.01
C2202 0.01
TO MONITOR CN761
CN101
SPK+
SPK-
TO DV MAIN/1394PHY
AIMCK
AILRCK
AIBCK
AODAT
AIDAT
TO ANR
TO SYSCON
ND_H
PD_L
CLK_OUT
AUDIO_CS
DATA_OUT
TO REG
REG_3V
M_REG4.8
REG_4.8V
TO REG
GND
TO JACK CN502
CN103
AU_SIG/R
AU_SIG/L
TO SYSCON
BUZZER
S_SHUT
TO CAM DSP
A_MUTE
S_MUTE
TO SYSCON
MCLK
LRCK
BCLK
SDTI
SDTO
ND
PD
CCLK
CS
DATA
Clock Divider
Control Register I/F
A/D Converter
D/A Converter
HPF
Audio I/F Controller
MIX
R2029 ※
L2002 22μ
C2015 10/6.3
C2013 0.1
C2014 0.1
C2003 ※
R2019 2.7
R2020 2.7
C2133 0.022
C2113 0.0047
R2105 100k
C2111 0.0047
R2107 47k
R2129 3.3k
C2115 0.1
C2125 0.022
C2121 0.022
R2113 15k
C2123 0.022
R2127 4.7k
R2109 4.7k
R2111 2.2k
R2119 15k
R2117 4.7k
R2103 15k
C2103 1.0
R2101 1.8k
C2131 0.001
C2101 0.1
C2110 1.0
C2109 10/6.3
C2102 0.1
C2132 0.001
C2130 ※
C2104 1.0
R2102 1.8k
R2120 15k
R2118 4.7k
R2104 15k
C2124 0.022
R2128 4.7k
R2110 4.7k
R2112 2.2k
C2126 0.022
C2122 0.022
R2114 15k
C2112 0.0047
R2108 47k
C2116 0.1
R2130 3.3k
R2106 100k
C2114 0.0047
C2134 0.022
C2004 1.0
C2005 1.0
C2002 10/6.3
C2018 0.1
C2019 0.1
R2024 18k
R2028 220k
C2020 0.1
C2021 0.1
R2023 1k
C2017 0.033
C2016 0.022
R2025 100k
Q2004 2SC4617/RS/-X
R2026 ※
R2027 3.3k
C2001 10/6.3
R2006 10
L2001 10μ
R2018 10k
R2014 82
R2015 82
R2016 82
R2017 1k
C2012 10/6.3
Q2002 2SC4617/RS/-X
C2011 10/6.3
C2008 1.0
C2007 0.01
C2006 0.01
D2001 ※
D2002 ※
C2009 1.0
R2007 1k
C2010 1.0
R2008 1k
Q2001 UMX1N
R2009 3.3k
MIC SEL
MPWR 3.3V
EXT MIC Rch
INT MIC Rch
MRF
MVCM 2V
GND (MVDD)
MVDD 4V
INT MIC Lch
EXT MIC Lch
MA BIAS 2V
SVDD 4.0V
GND (SVDD)
GND (VD)
VD 3V
A_MUTE
HP OUT Lch
HP OUT Rch
HVDD 4.8V
HVCM 2.4V
LINE OUT Rch
LINE IN Rch
LINE OUT Lch
LINE IN Lch
SP IN
AVR OUT
VCOM 1.5V
VREF 1.5V
GND (VA)
VA 3V
LINEOUT2 Rch
LINEOUT2 Lch
VOL
SIG
BEEP
HPF OFF
ON
INT
EXT
Rch ALC AMP
Lch ALC AMP
MIC
LINE
y20144001a_rev0
A
B
C
D
E
F
G
H
1
2
3
4
5

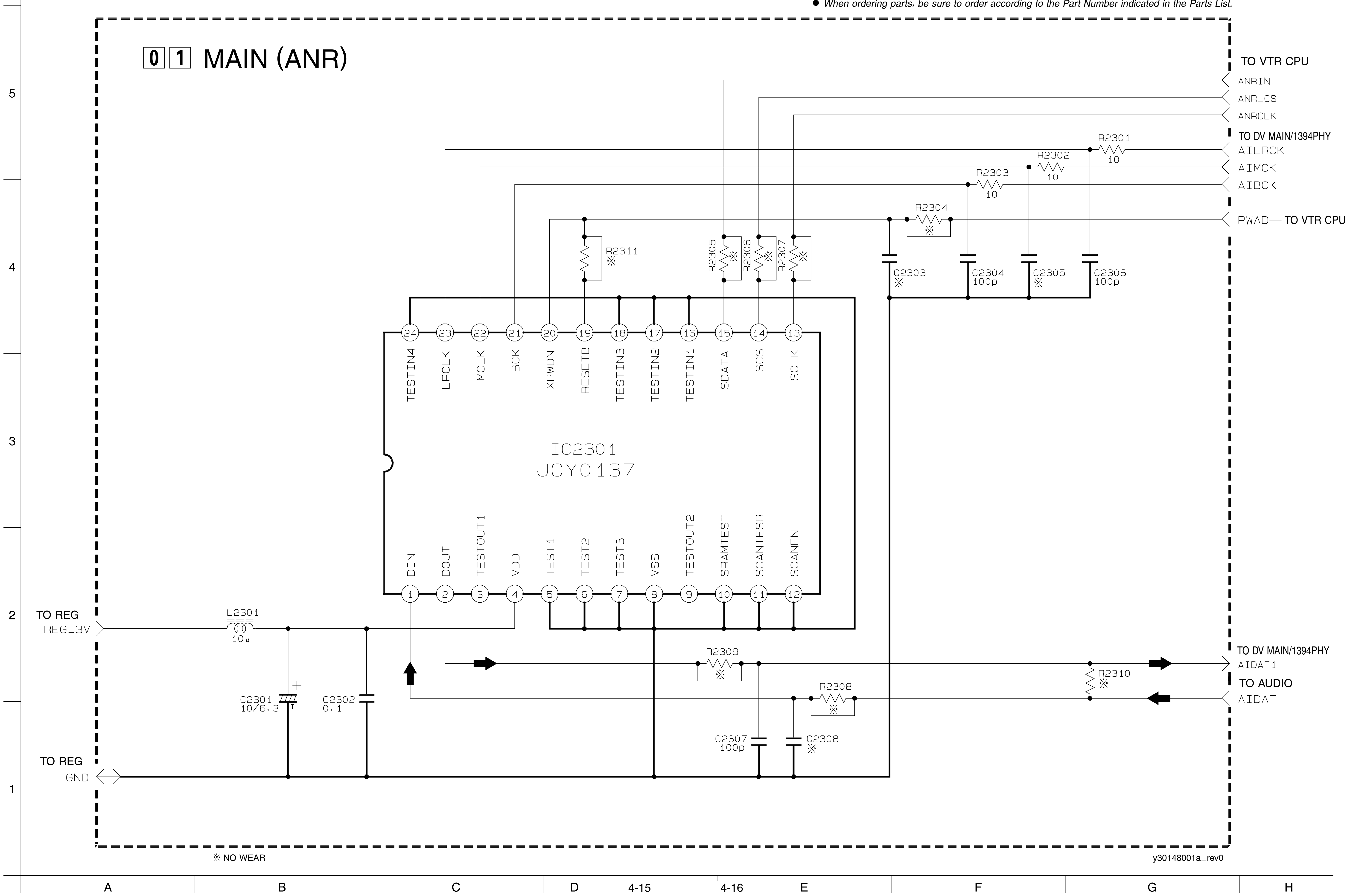
※ NO WEAR

#Exchange Parts List

	DOM	OTHER
L2201	NQR0269-013X	NRSA63J-0R0X
L2202	NQR0269-013X	NRSA63J-0R0X
L2203	NQR0269-013X	NRSA63J-0R0X

4.7 ANR SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



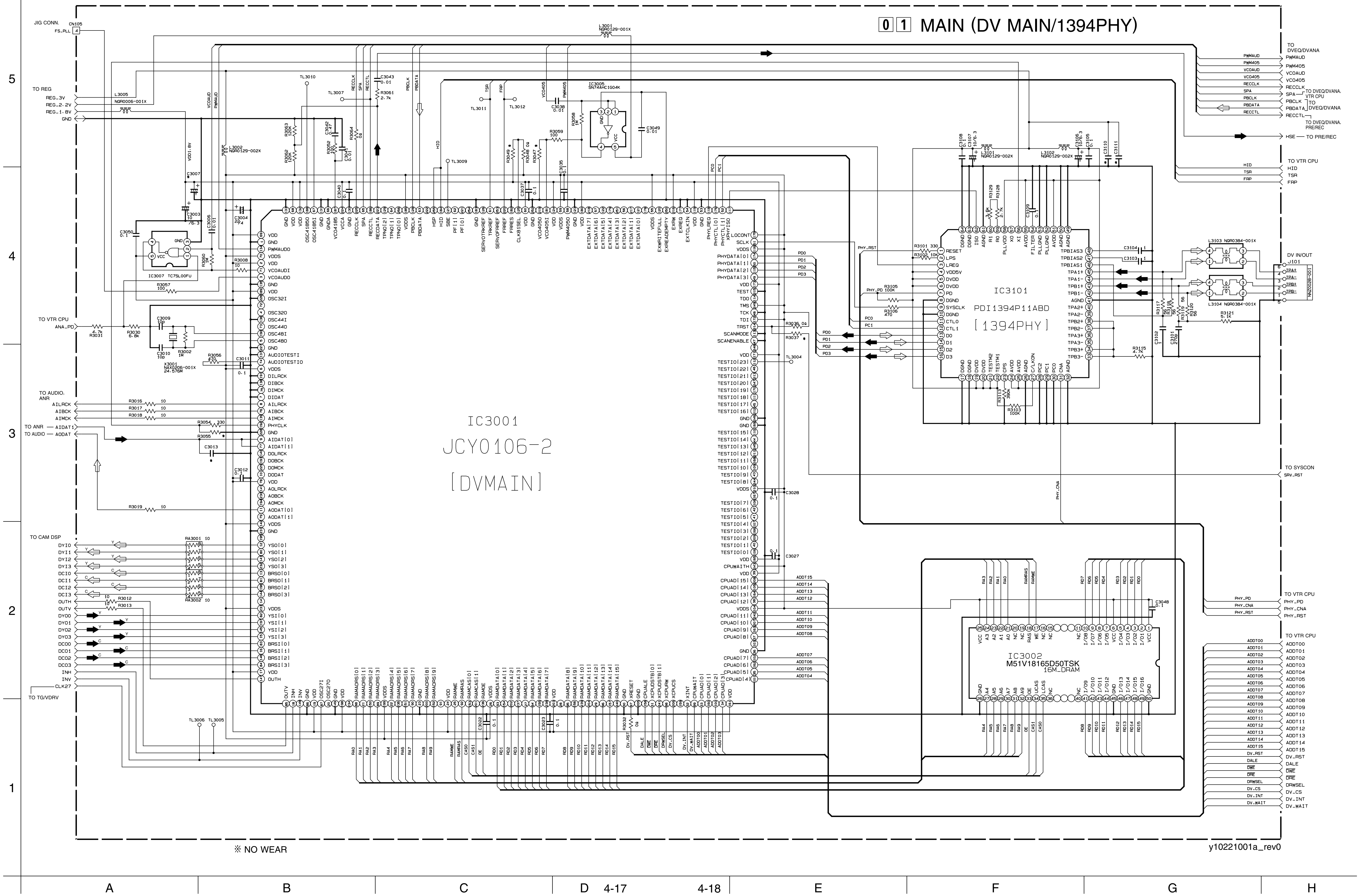
0 1 MAIN (ANR)
TO VTR CPU
ANRIN
ANR_CS
ANRCLK
TO DV MAIN/1394PHY
AILRCK
AIMCK
AIBCK
PWAD— TO VTR CPU
R2301 10
R2302 10
R2303 10
R2304 ※
R2305 ※
R2306 ※
R2307 ※
R2311 ※
C2303 ※
C2304 100p
C2305 ※
C2306 100p
IC2301
JCY0137
24 TESTIN4
23 LRCLK
22 MCLK
21 BCK
20 XPWDN
19 RESETB
18 TESTIN3
17 TESTIN2
16 TESTIN1
15 SDATA
14 SCS
13 SCLK
1 DIN
2 DOUT
3 TESTOUT1
4 VDD
5 TEST1
6 TEST2
7 TEST3
8 VSS
9 TESTOUT2
10 SRAMTEST
11 SCANTESR
12 SCANEN
TO REG
REG_3V
L2301 10μ
C2301 10/6.3
C2302 0.1
TO REG
GND
R2309 ※
R2308 ※
R2310 ※
C2307 100p
C2308 ※
TO DV MAIN/1394PHY
AIDAT1
TO AUDIO
AIDAT
1
2
3
4
5
A
B
C
D
E
F
G
H

※ NO WEAR

y30148001a_rev0

4.8 DV MAIN/1394PHY SCHEMATIC DIAGRAM

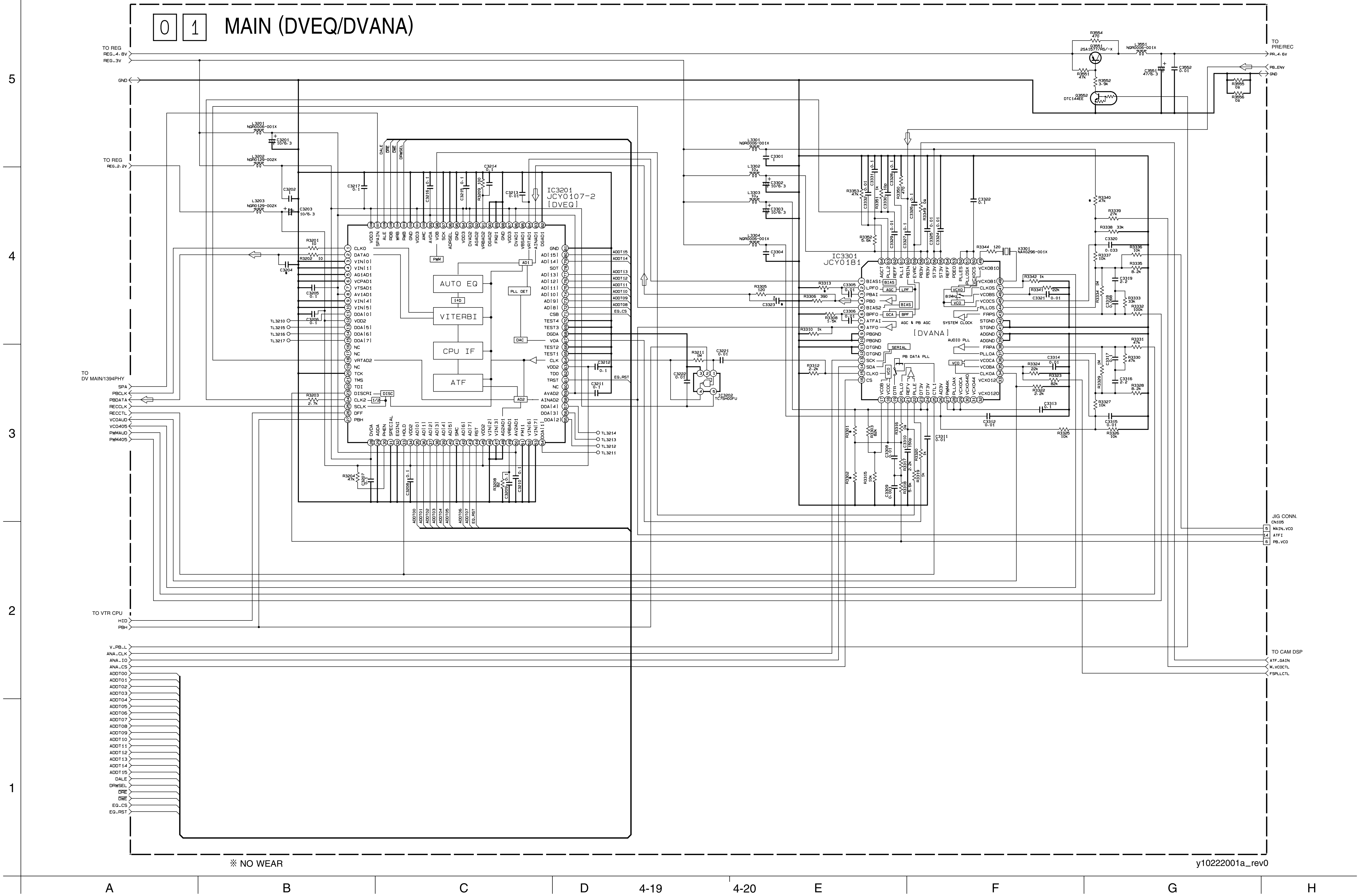
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



01 MAIN (DV MAIN/1394PHY)
JIG CONN.
CN105
FS_PLL
TO REG
REG_3V
REG_2.2V
REG_1.8V
GND
L3005 NQR0006-001X
L3001 NQR0129-001X
L3002 NQR0129-002X
IC3005 SN74AHC1G04K
IC3007 TC7SL00FU
TO VTR CPU
ANA_PD
R3031 4.7k
R3030 6.8k
X3001 NAX0206-001X 24.576M
TO AUDIO, ANR
AILRCK
AIBCK
AIMCK
TO ANR — AIDAT1
TO AUDIO — AODAT
TO CAM DSP
DYI0
DYI1
DYI2
DYI3
DCI0
DCI1
DCI2
DCI3
OUTH
OUTV
DYO0
DYO1
DYO2
DYO3
DCO0
DCO1
DCO2
DCO3
INH
INV
CLK27
TO TG/VDRV
RA3001
RA3002
IC3001
JCY0106-2
[DVMAIN]
IC3101
PDI1394P11ABD
[1394PHY]
IC3002
M51V18165D50TSK
16M_DRAM
L3101 NQR0129-002X
L3102 NQR0129-002X
L3103 NQR0384-001X
L3104 NQR0384-001X
DV IN/OUT
J101
TPA+
TPA-
TPB+
TPB-
TO DVEQ/DVANA
PWMAUD
PWM405
VCOAUD
VCO405
RECCLK
SPA
PBCLK
PBDATA
RECCTL
TO DVEQ/DVANA, VTR CPU
TO DVEQ/DVANA
TO DVEQ/DVANA, PRE/REC
HSE — TO PRE/REC
TO VTR CPU
HID
TSR
FRP
TO SYSCON
SRV_RST
TO VTR CPU
PHY_PD
PHY_CNA
PHY_RST
TO VTR CPU
ADDT00
ADDT01
ADDT02
ADDT03
ADDT04
ADDT05
ADDT06
ADDT07
ADDT08
ADDT09
ADDT10
ADDT11
ADDT12
ADDT13
ADDT14
ADDT15
DV_RST
DALE
DWE
DRE
DRWSEL
DV_CS
DV_INT
DV_WAIT
TL3004
TL3005
TL3006
TL3007
TL3009
TL3010
TL3011
TL3012
※ NO WEAR
y10221001a_rev0
1
2
3
4
5
A
B
C
D
E
F
G
H

4.9 DVEQ/DVANA SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



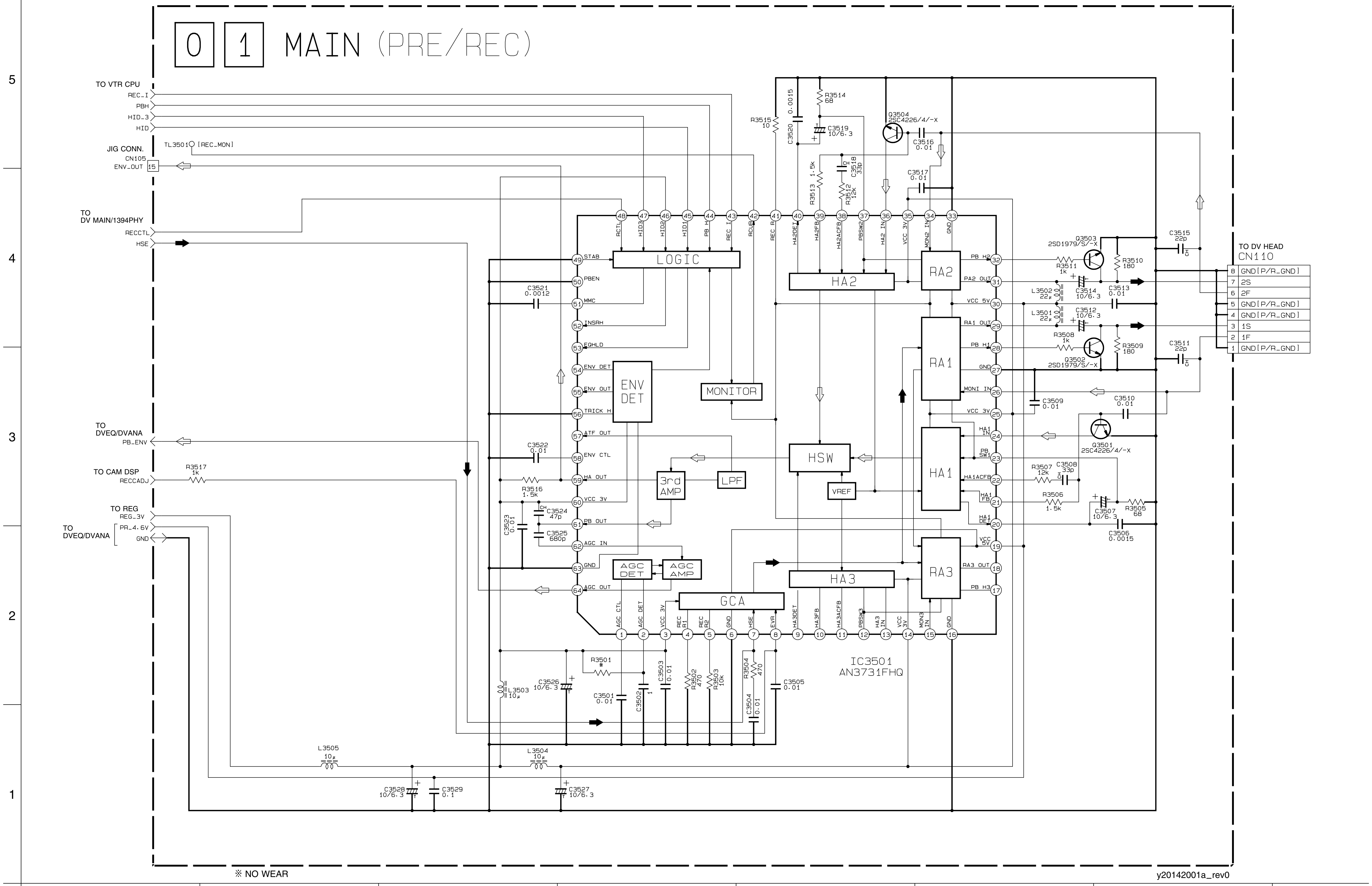
0 1 MAIN (DVEQ/DVANA)
TO REG
REG_4.8V
REG_3V
GND
TO REG
REG_2.2V
TO DV MAIN/1394PHY
SPA
PBCLK
PBDATA
RECCLK
RECCTL
VCOAUD
VCO405
PWMAUD
PWM405
TO VTR CPU
HID
PBH
V_PB_L
ANA_CLK
ANA_IO
ANA_CS
ADDT00
ADDT01
ADDT02
ADDT03
ADDT04
ADDT05
ADDT06
ADDT07
ADDT08
ADDT09
ADDT10
ADDT11
ADDT12
ADDT13
ADDT14
ADDT15
DALE
DRWSEL
DRE
DWE
EQ_CS
EQ_RST
IC3201
JCY0107-2
[DVEQ]
AUTO EQ
VITERBI
CPU IF
ATF
PWM
PLL DET
DAC
DISC
IC3202
TC7SH00FU
IC3301
JCY0181
[DVANA]
AGC & PB AGC
SYSTEM CLOCK
AUDIO PLL
PB DATA PLL
SERIAL
X3301
NAX0296-001X
Q3551
2SA1577/RS/-X
Q3552
DTC144EE
TO PRE/REC
PR_4.6V
PB_ENV
GND
JIG CONN.
CN105
MAIN_VCO
ATFI
PB_VCO
TO CAM DSP
ATF_GAIN
M_VCOCTL
FSPLLCTL
5
4
3
2
1
A
B
C
D
E
F
G
H

※ NO WEAR

y10222001a_rev0

4.10 PRE/REC SCHEMATIC DIAGRAM

NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



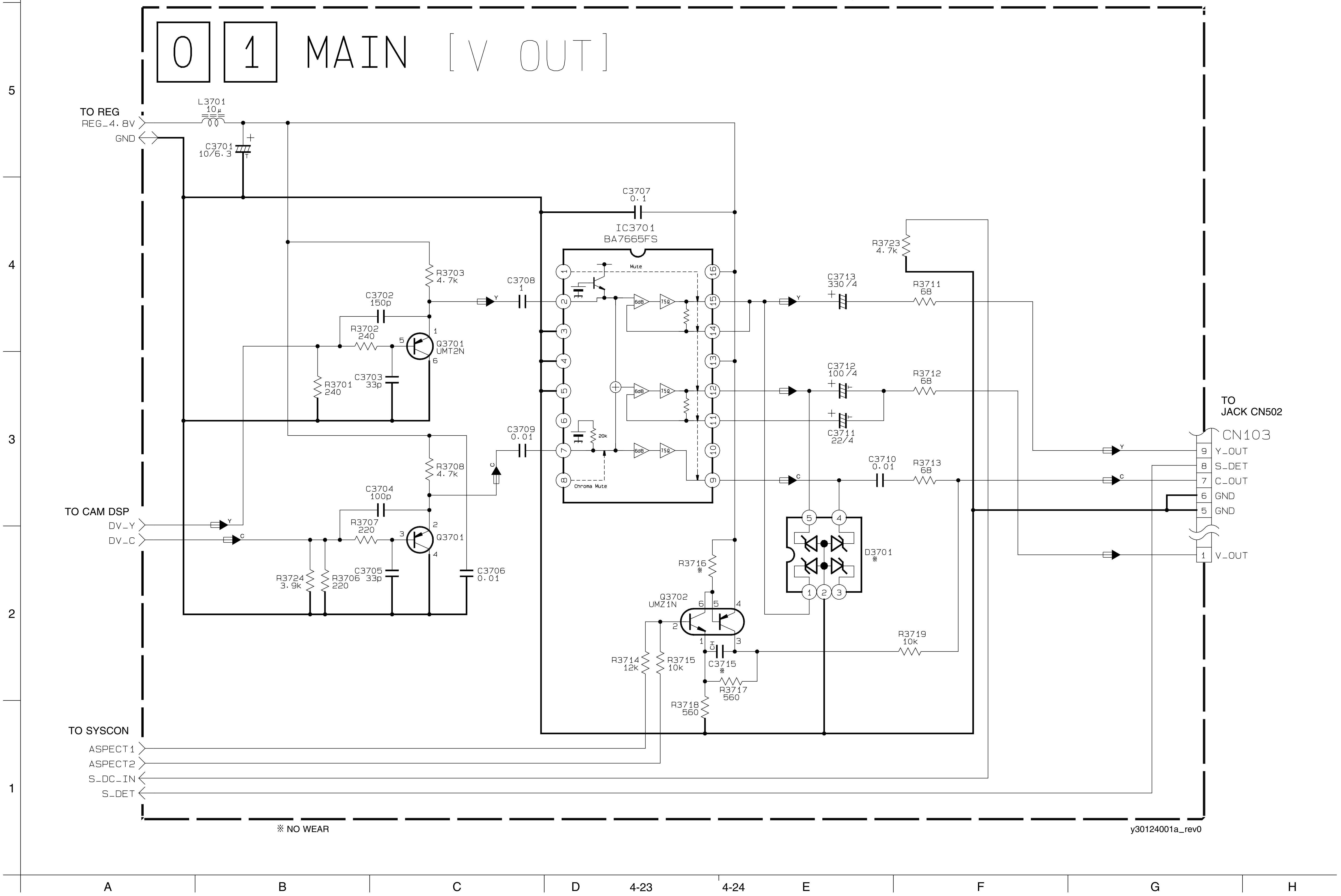
0 1 MAIN (PRE/REC)
TO VTR CPU
REC_I
PBH
HID_3
HID
JIG CONN.
CN105
ENV_OUT 15
TL3501 [REC_MON]
TO DV MAIN/1394PHY
RECCTL
HSE
TO DVEQ/DVANA
PB_ENV
TO CAM DSP
RECCADJ
R3517 1k
TO REG
REG_3V
TO DVEQ/DVANA
PR_4.6V
GND
LOGIC
ENV DET
MONITOR
3rd AMP
LPF
AGC DET
AGC AMP
GCA
HA2
HSW
VREF
HA3
RA2
RA1
HA1
RA3
IC3501
AN3731FHQ
STAB
PBEN
MMC
INSRH
EQHLD
ENV DET
ENV OUT
TRICK H
ATF OUT
ENV CTL
HA OUT
VCC 3V
PB OUT
AGC IN
GND
AGC OUT
AGC CTL
AGC DET
VCC 3V
REC R1
REC R2
GND
HSE
EVR
HA3DET
HA3FB
HA3ACFB
PBSW3
HA3 IN
VCC 3V
MON3 IN
GND
RCTL
HID3
HID2
HID1
PB H
REC I
RCUR
REC R
HA2DET
HA2FB
HA2ACFB
PBSW2
HA2 IN
VCC 3V
MON2 IN
GND
PB H2
PA2 OUT
VCC 5V
RA1 OUT
PB H1
GND
MONI IN
VCC 3V
HA1 IN
PB SW1
HA1ACFB
HA1 FB
HA1 DET
VCC 5V
RA3 OUT
PB H3
C3521 0.0012
C3522 0.01
R3516 1.5k
C3523 0.01
C3524 47p
C3525 680p
R3515 10
C3520 0.0015
R3514 68
C3519 10/6.3
Q3504 2SC4226/4/-X
C3516 0.01
R3513 1.5k
C3518 33p
R3512 12k
C3517 0.01
Q3503 2SD1979/S/-X
R3511 1k
R3510 180
C3515 22p
L3502 22μ
C3514 10/6.3
C3513 0.01
L3501 22μ
C3512 10/6.3
R3508 1k
Q3502 2SD1979/S/-X
R3509 180
C3511 22p
C3509 0.01
C3510 0.01
Q3501 2SC4226/4/-X
R3507 12k
C3508 33p
R3506 1.5k
C3507 10/6.3
R3505 68
C3506 0.0015
TO DV HEAD
CN110
8 GND[P/R_GND]
7 2S
6 2F
5 GND[P/R_GND]
4 GND[P/R_GND]
3 1S
2 1F
1 GND[P/R_GND]
R3501 ※
C3501 0.01
C3502 1
C3503 0.01
R3502 470
R3503 10k
R3504 470
C3504 0.01
C3505 0.01
L3503 10μ
C3526 10/6.3
L3505 10μ
L3504 10μ
C3528 10/6.3
C3529 0.1
C3527 10/6.3
5
4
3
2
1
A
B
C
D
E
F
G
H

※ NO WEAR

y20142001a_rev0

4.11 V OUT SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

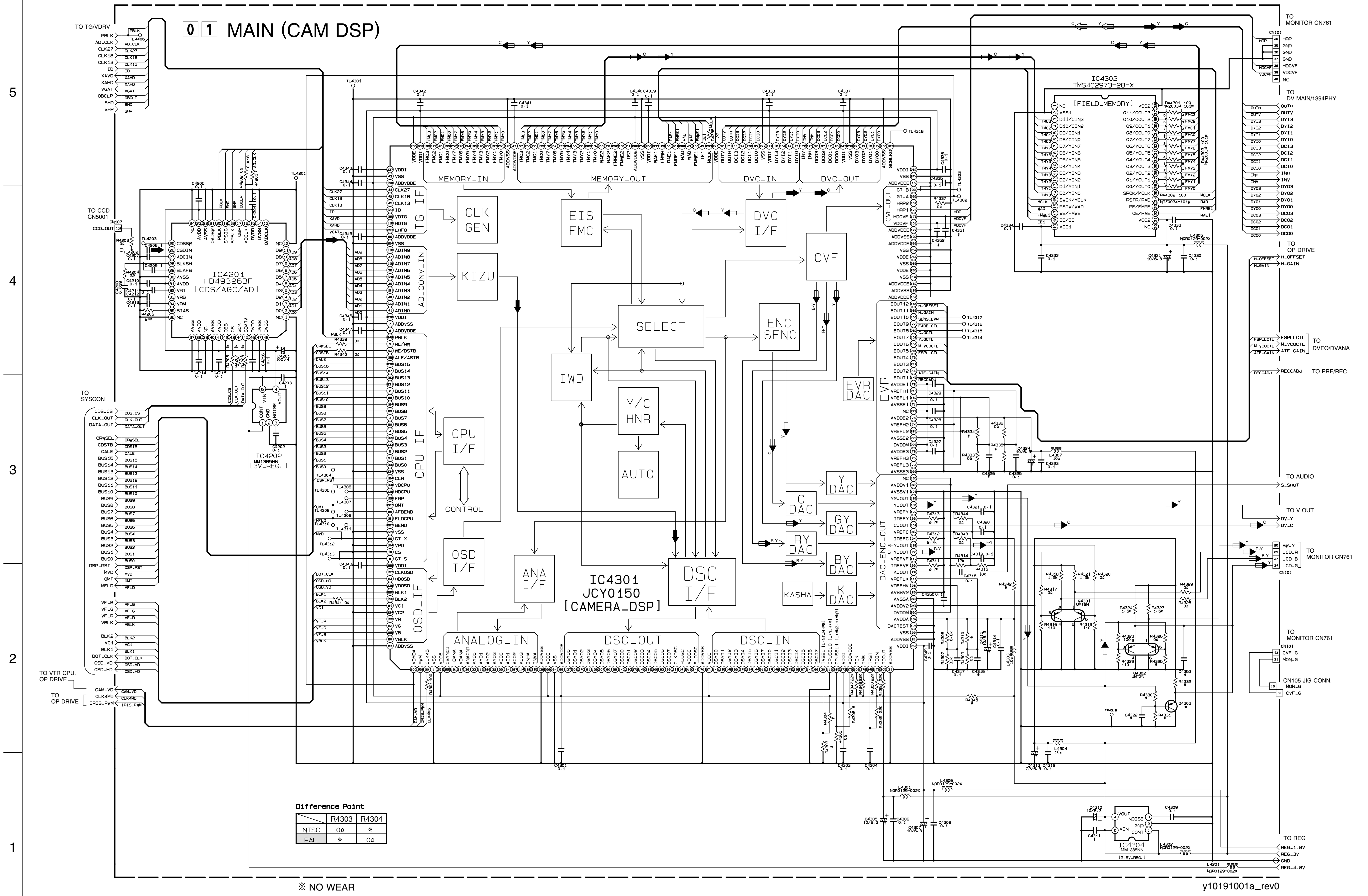

0 1 MAIN [V OUT]
TO REG
REG_4.8V
GND
L3701 10µ
C3701 10/6.3
C3707 0.1
IC3701 BA7665FS
Mute
Chroma Mute
6dB
75Ω
20k
R3703 4.7k
C3708 1
C3702 150p
R3702 240
Q3701 UMT2N
C3703 33p
R3701 240
C3709 0.01
R3708 4.7k
C3704 100p
R3707 220
Q3701
C3705 33p
C3706 0.01
R3724 3.9k
R3706 220
TO CAM DSP
DV_Y
DV_C
Y
C
R3723 4.7k
C3713 330/4
R3711 68
C3712 100/4
R3712 68
C3711 22/4
C3710 0.01
R3713 68
D3701 ※
R3716 ※
Q3702 UMZ1N
R3714 12k
R3715 10k
C3715 ※
R3717 560
R3718 560
R3719 10k
TO JACK CN502
CN103
9 Y_OUT
8 S_DET
7 C_OUT
6 GND
5 GND
1 V_OUT
TO SYSCON
ASPECT1
ASPECT2
S_DC_IN
S_DET
5
4
3
2
1
A
B
C
D
E
F
G
H

※ NO WEAR

y30124001a_rev0

4.12 CAM DSP SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



01 MAIN (CAM DSP)
TO TG/VDRV
TO CCD CN5001
IC4201
HD49326BF
[CDS/AGC/AD]
IC4202
MM1385HN
[3V_REG.]
TO SYSCON
TO VTR CPU, OP DRIVE
TO OP DRIVE
TG_IF
AD_CONV_IN
CPU_IF
OSD_IF
CLK GEN
KIZU
CPU I/F
CONTROL
OSD I/F
ANA I/F
MEMORY_IN
MEMORY_OUT
DVC_IN
DVC_OUT
EIS FMC
DVC I/F
CVF
SELECT
ENC SENC
IWD
Y/C HNR
AUTO
DSC I/F
IC4301
JCY0150
[CAMERA_DSP]
ANALOG_IN
DSC_OUT
DSC_IN
CVF_OUT
EVR
EVR DAC
DAC_ENC_OUT
Y DAC
C DAC
GY DAC
RY DAC
BY DAC
K DAC
KASHA
IC4302
TMS4C2973-28-X
[FIELD_MEMORY]
TO MONITOR CN761
TO DV MAIN/1394PHY
TO OP DRIVE
TO DVEQ/DVANA
TO PRE/REC
TO AUDIO
TO V OUT
TO MONITOR CN761
TO MONITOR CN761
CN105 JIG CONN.
IC4304
MM1385NN
[2.5V_REG.]
TO REG
5
4
3
2
1
A
B
C
D
E
F
G
H

Difference Point

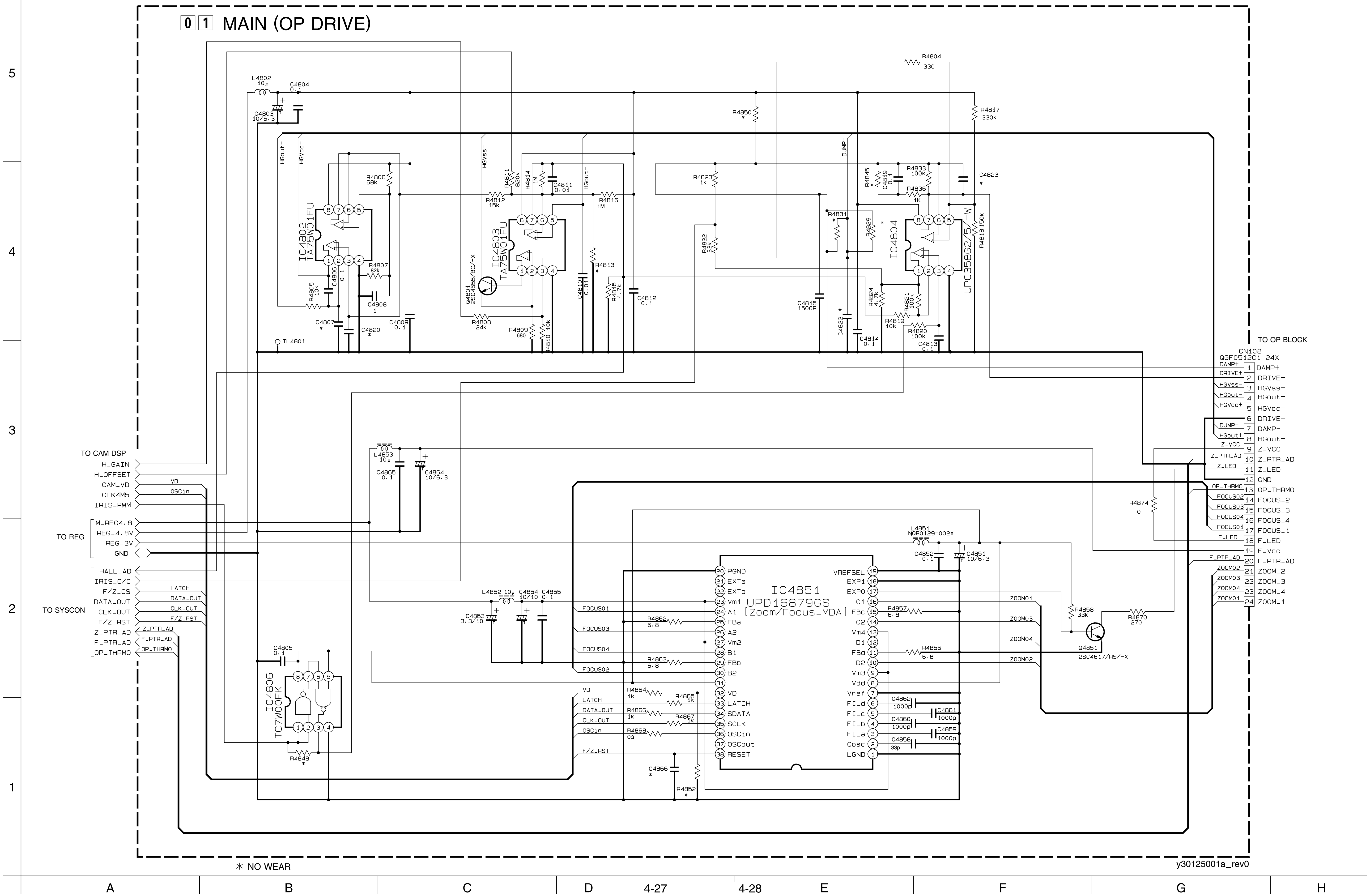
	R4303	R4304
NTSC	0Ω	※
PAL	※	0Ω

※ NO WEAR

y10191001a_rev0

4.13 OP DRIVE SCHEMATIC DIAGRAM

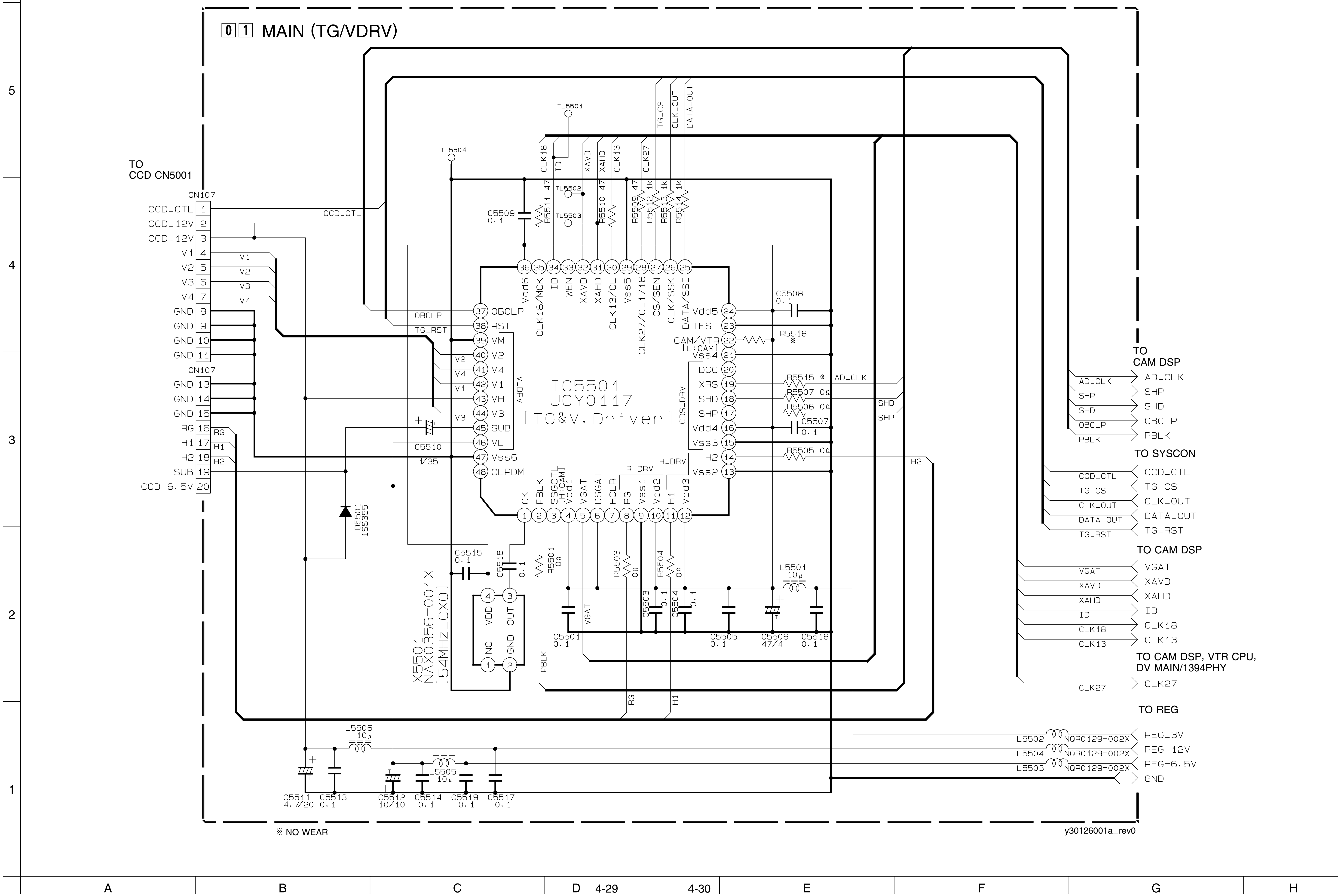
NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



01 MAIN (OP DRIVE)
TO CAM DSP
H_GAIN
H_OFFSET
CAM_VD
CLK4M5
IRIS_PWM
TO REG
M_REG4.8
REG_4.8V
REG_3V
GND
TO SYSCON
HALL_AD
IRIS_O/C
F/Z_CS
DATA_OUT
CLK_OUT
F/Z_RST
Z_PTR_AD
F_PTR_AD
OP_THRMO
VD
OSCin
LATCH
L4802 10μ
C4804 0.1
C4803 10/6.3
IC4802 TA75W01FU
R4806 68k
R4807 82k
C4806 0.1
R4805 10k
C4808 1
C4807 *
C4820 *
C4809 0.1
TL4801
HGout+
HGVcc+
HGVss-
HGout-
DUMP-
IC4803 TA75W01FU
Q4801 2SC4655/BC/-X
R4811 820k
R4814 1M
C4811 0.01
R4812 15k
R4816 1M
R4813 *
R4815 4.7k
C4810 0.01
C4812 0.1
R4808 24k
R4809 680
R4810 10k
R4804 330
R4817 330k
R4850 *
R4823 1k
R4822 33k
R4831 *
R4829 *
R4845 *
C4819 0.1
R4833 100k
R4836 1k
C4823 *
IC4804 UPC358G2/5-W
R4818 150k
C4815 1500P
C4822 *
R4824 4.7k
R4821 100k
R4819 10k
R4820 100k
C4814 0.1
C4813 0.1
TO OP BLOCK
CN108 QGF0512C1-24X
1 DAMP+
2 DRIVE+
3 HGVss-
4 HGout-
5 HGVcc+
6 DRIVE-
7 DAMP-
8 HGout+
9 Z_VCC
10 Z_PTR_AD
11 Z_LED
12 GND
13 OP_THRMO
14 FOCUS_2
15 FOCUS_3
16 FOCUS_4
17 FOCUS_1
18 F_LED
19 F_Vcc
20 F_PTR_AD
21 ZOOM_2
22 ZOOM_3
23 ZOOM_4
24 ZOOM_1
L4853 10μ
C4865 0.1
C4864 10/6.3
R4874 0
L4851 NQR0129-002X
C4852 0.1
C4851 10/6.3
L4852 10μ
C4854 10/10
C4855 0.1
C4853 3.3/10
IC4851 UPD16879GS [Zoom/Focus_MDA]
20 PGND
21 EXTa
22 EXTb
23 Vm1
24 A1
25 FBa
26 A2
27 Vm2
28 B1
29 FBb
30 B2
31
32 VD
33 LATCH
34 SDATA
35 SCLK
36 OSCin
37 OSCout
38 RESET
19 VREFSEL
18 EXP1
17 EXP0
16 C1
15 FBc
14 C2
13 Vm4
12 D1
11 FBd
10 D2
9 Vm3
8 Vdd
7 Vref
6 FILd
5 FILc
4 FILb
3 FILa
2 Cosc
1 LGND
FOCUS01
FOCUS03
FOCUS04
FOCUS02
ZOOM01
ZOOM03
ZOOM04
ZOOM02
R4862 6.8
R4863 6.8
R4857 6.8
R4856 6.8
R4858 33k
R4870 270
Q4851 2SC4617/RS/-X
R4864 1k
R4865 1k
R4866 1k
R4867 1k
R4868 0Ω
C4862 1000p
C4861 1000p
C4860 1000p
C4859 1000p
C4858 33p
C4866 *
R4852 *
C4805 0.1
IC4806 TC7W00FK
R4848 *
* NO WEAR
y30125001a_rev0
A B C D E F G H
1 2 3 4 5

4.14 TG/VDRV SCHEMATIC DIAGRAM

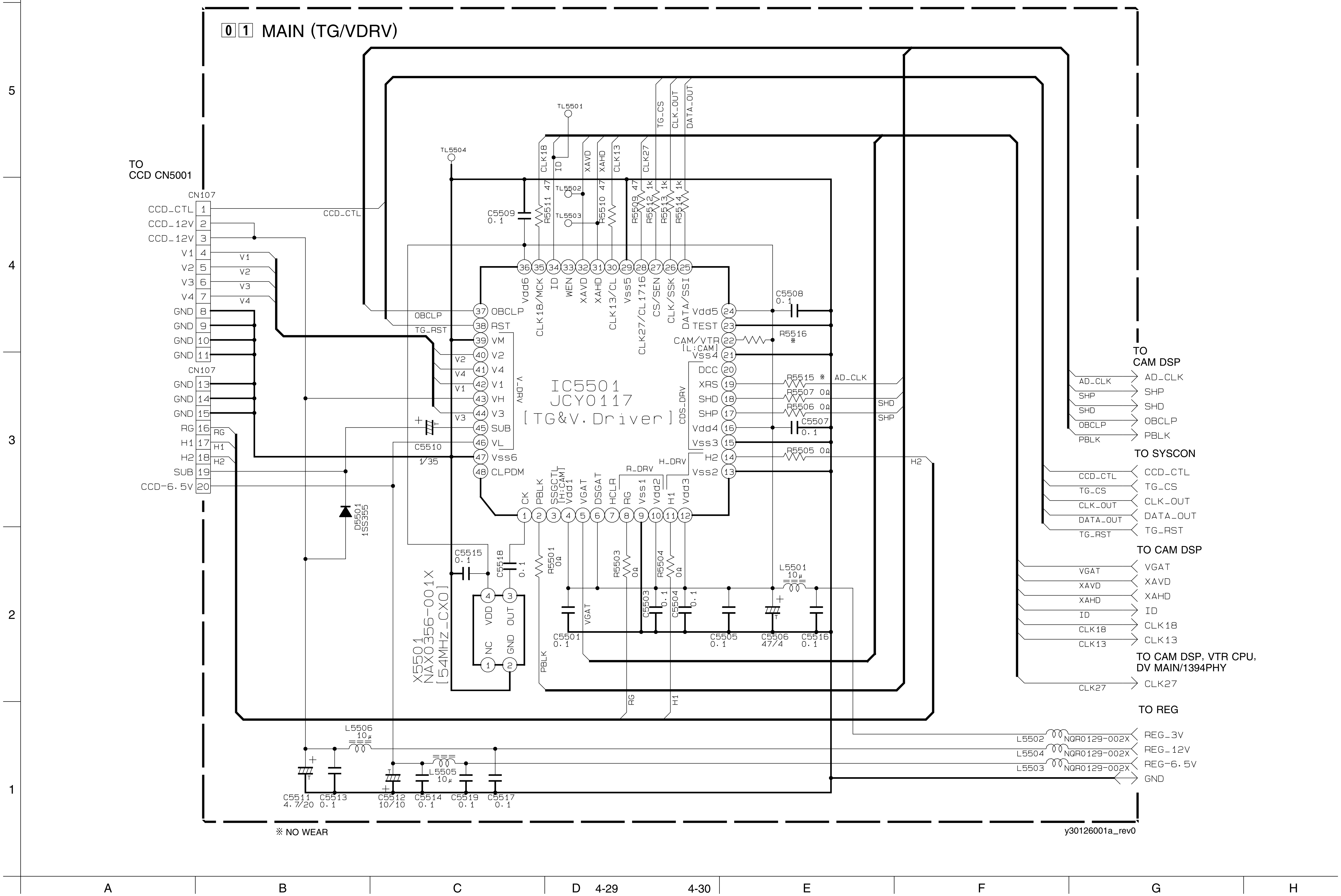
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



0 1 MAIN (TG/VDRV)
TO CCD CN5001
CN107
1 CCD_CTL
2 CCD_12V
3 CCD_12V
4 V1
5 V2
6 V3
7 V4
8 GND
9 GND
10 GND
11 GND
13 GND
14 GND
15 GND
16 RG
17 H1
18 H2
19 SUB
20 CCD-6.5V
IC5501
JCY0117
[TG&V.Driver]
V_DRV
CDS_DRV
R_DRV
H_DRV
1 CK
2 PBLK
3 SSGCTL [H:CAM]
4 Vdd1
5 VGAT
6 DSGAT
7 HCLR
8 RG
9 Vss1
10 Vdd2
11 H1
12 Vdd3
13 Vss2
14 H2
15 Vss3
16 Vdd4
17 SHP
18 SHD
19 XRS
20 DCC
21 Vss4
22 CAM/VTR [L:CAM]
23 TEST
24 Vdd5
25 DATA/SSI
26 CLK/SSK
27 CS/SEN
28 CLK27/CL1716
29 Vss5
30 XAHD13/CL
31 XAHD
32 XAVD
33 WEN
34 ID
35 CLK18/MCK
36 Vdd6
37 OBCLP
38 RST
39 VM
40 V2
41 V4
42 V1
43 VH
44 V3
45 SUB
46 VL
47 Vss6
48 CLPDM
TL5501
TL5502
TL5503
TL5504
C5509 0.1
R5511 47
R5510 47
R5509 47
R5512 1k
R5513 1k
R5514 1k
C5508 0.1
R5516 ※
R5515 ※
R5507 0Ω
R5506 0Ω
C5507 0.1
R5505 0Ω
C5510 1/35
D5501 1SS355
X5501 NAX0356-001X [54MHz_CXO]
VDD OUT NC GND
C5515 0.1
C5518 0.1
R5501 0Ω
R5503 0Ω
R5504 0Ω
L5501 10μ
C5501 0.1
C5503 0.1
C5504 0.1
C5505 0.1
C5506 47/4
C5516 0.1
L5506 10μ
L5505 10μ
C5511 4.7/20
C5513 0.1
C5512 10/10
C5514 0.1
C5519 0.1
C5517 0.1
TO CAM DSP
AD_CLK
SHP
SHD
OBCLP
PBLK
TO SYSCON
CCD_CTL
TG_CS
CLK_OUT
DATA_OUT
TG_RST
TO CAM DSP
VGAT
XAVD
XAHD
ID
CLK18
CLK13
TO CAM DSP, VTR CPU, DV MAIN/1394PHY
CLK27
TO REG
L5502 NQR0129-002X REG_3V
L5504 NQR0129-002X REG_12V
L5503 NQR0129-002X REG-6.5V
GND
※ NO WEAR
y30126001a_rev0
A B C D E F G H
1 2 3 4 5

4.14 TG/VDRV SCHEMATIC DIAGRAM

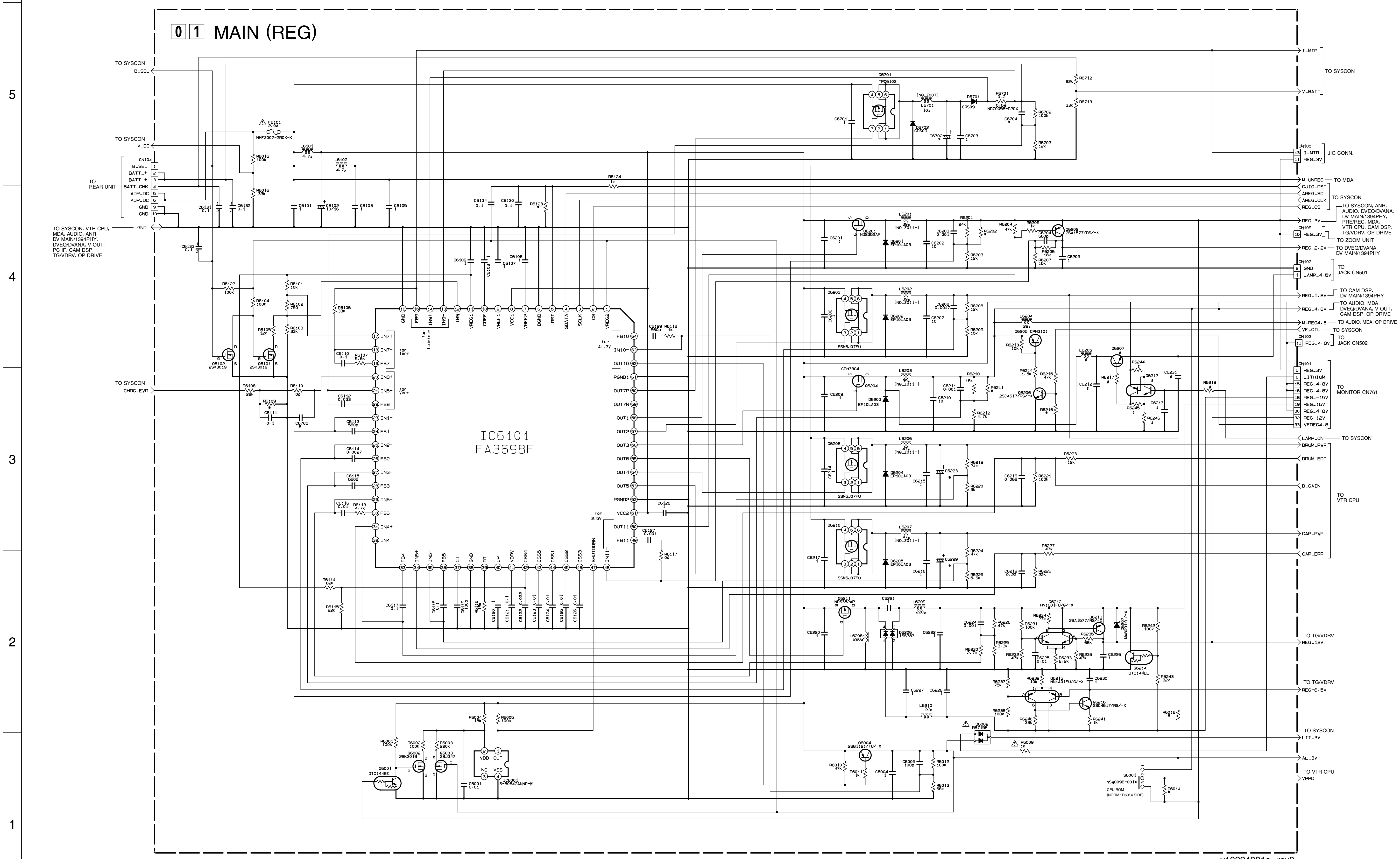
NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



01 MAIN (TG/VDRV)
TO CCD CN5001
CN107
1 CCD_CTL
2 CCD_12V
3 CCD_12V
4 V1
5 V2
6 V3
7 V4
8 GND
9 GND
10 GND
11 GND
CN107
13 GND
14 GND
15 GND
16 RG
17 H1
18 H2
19 SUB
20 CCD-6.5V
IC5501
JCY0117
[TG&V.Driver]
V_DRV
CDS_DRV
R_DRV
H_DRV
1 CK
2 PBLK
3 SSGCTL [H:CAM]
4 Vdd1
5 VGAT
6 DSGAT
7 HCLR
8 RG
9 Vss1
10 Vdd2
11 H1
12 Vdd3
13 Vss2
14 H2
15 Vss3
16 Vdd4
17 SHP
18 SHD
19 XRS
20 DCC
21 Vss4
22 CAM/VTR [L:CAM]
23 TEST
24 Vdd5
25 DATA/SSI
26 CLK/SSK
27 CS/SEN
28 CLK27/CL1716
29 Vss5
30 XAHD13/CL
31 XAHD
32 XAVD
33 WEN
34 ID
35 CLK18/MCK
36 Vdd6
37 OBCLP
38 RST
39 VM
40 V2
41 V4
42 V1
43 VH
44 V3
45 SUB
46 VL
47 Vss6
48 CLPDM
TL5501
TL5502
TL5503
TL5504
TG_CS
CLK_OUT
DATA_OUT
CLK18
ID
XAVD
XAHD
CLK13
CLK27
R5511 47
R5510 47
R5509 47
R5512 1k
R5513 1k
R5514 1k
C5509 0.1
C5508 0.1
R5516 ※
R5515 ※
R5507 0Ω
R5506 0Ω
C5507 0.1
R5505 0Ω
AD_CLK
SHD
SHP
H2
OBCLP
TG_RST
CCD_CTL
V1
V2
V3
V4
RG
H1
H2
C5510 1/35
D5501 1SS355
C5515 0.1
C5518 0.1
X5501
NAX0356-001X
[54MHz_CXO]
VDD
OUT
NC
GND
R5501 0Ω
R5503 0Ω
R5504 0Ω
L5501 10μ
VGAT
PBLK
C5501 0.1
C5503 0.1
C5504 0.1
C5505 0.1
C5506 47/4
C5516 0.1
L5506 10μ
L5505 10μ
C5511 4.7/20
C5513 0.1
C5512 10/10
C5514 0.1
C5519 0.1
C5517 0.1
TO CAM DSP
AD_CLK
SHP
SHD
OBCLP
PBLK
TO SYSCON
CCD_CTL
TG_CS
CLK_OUT
DATA_OUT
TG_RST
TO CAM DSP
VGAT
XAVD
XAHD
ID
CLK18
CLK13
TO CAM DSP, VTR CPU, DV MAIN/1394PHY
CLK27
TO REG
L5502 NQR0129-002X
L5504 NQR0129-002X
L5503 NQR0129-002X
REG_3V
REG_12V
REG-6.5V
GND
※ NO WEAR
y30126001a_rev0
A
B
C
D
E
F
G
H
1
2
3
4
5

4.15 REG SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



0 1 MAIN (REG)
IC6101
FA3698F
TO SYSCON
B_SEL
V_DC
CN104
TO REAR UNIT
CHRG_EVR
TO SYSCON, VTR CPU, MDA, AUDIO, ANR, DV MAIN/1394PHY, DVEQ/DVANA, V OUT, PC IF, CAM DSP, TG/VDRV, OP DRIVE
Q6701 TPC6102
Q6102 2SK3019
Q6101 2SK3019
Q6201 ND5352AP
Q6202 2SA1577/RS/-X
Q6203 SSM6J07FU
Q6205 CPH3101
Q6207
Q6217
Q6208 SSM6J07FU
Q6210 SSM6J07FU
Q6211 ND5352AP
Q6212 HN1C01FU/G/-X
Q6213 2SA1577/RS/-X
Q6214 DTC144EE
Q6215 HN1A01FU/G/-X
Q6216 2SC4617/RS/-X
Q6206 2SC4617/RS/-X
Q6004 2SB1121/TU/-X
Q6001 DTC144EE
Q6002 2SK3019
Q6003 2SJ347
IC6001 S-80842ANNP-W
S6001 NSW0096-001X
CPU ROM (NORM : R6014 SIDE)
D6002 RB715F
I_MTR
V_BATT
TO SYSCON
CN105
JIG CONN.
M_UNREG
TO MDA
CJIG_RST
AREG_SO
AREG_CLK
AREG_CS
REG_3V
CN109
TO ZOOM UNIT
REG_2.2V
TO DVEQ/DVANA, DV MAIN/1394PHY
CN102
TO JACK CN501
REG_1.8V
TO CAM DSP, DV MAIN/1394PHY
REG_4.8V
M_REG4.8
TO AUDIO, MDA, OP DRIVE
VF_CTL
CN103
TO JACK CN502
CN101
TO MONITOR CN761
LAMP_ON
DRUM_PWR
DRUM_ERR
D_GAIN
TO VTR CPU
CAP_PWR
CAP_ERR
TO TG/VDRV
REG_12V
REG_6.5V
LIT_3V
AL_3V
TO VTR CPU
VPPD
1
2
3
4
5
A
B
C
D
E
F
G
H

※ NO WEAR

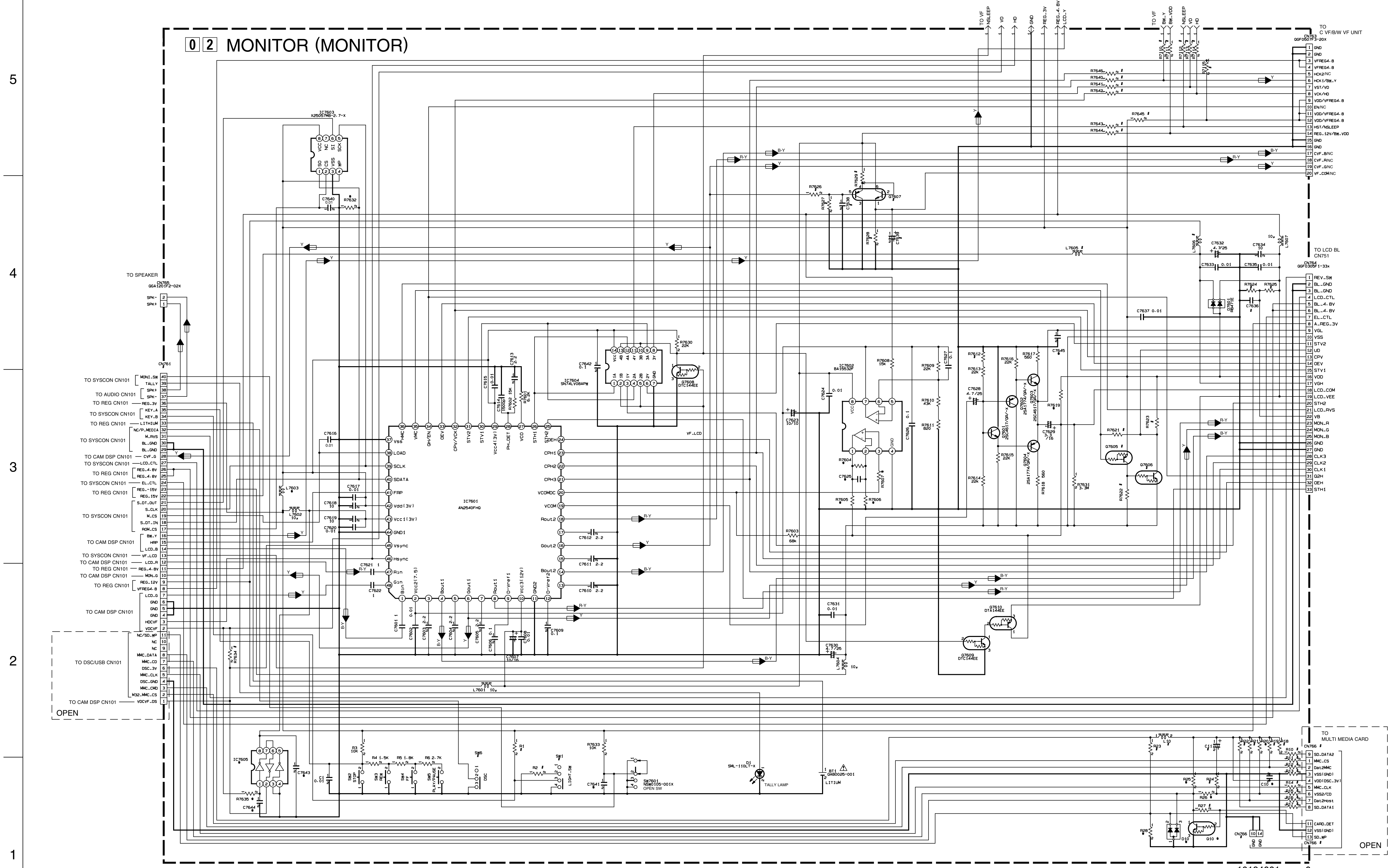
y10224001a_rev0

: EXCHANGE PARTS LIST

	L6205	Q6207	Q6217	R6217	R6218	R6244	R6245	R6246	C6212	C6213	C6231
with LIGHT	10μ	2SD1621/TU/-X	UMZ1N	150	100k	1.5k	5.6k	2.2k	0.1	1	0.01
without LIGHT	open	open	open	open	open	open	open	open	open	open	open

4.16 MONITOR SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



02 MONITOR (MONITOR)
5
4
3
2
1
IC7603 X25057AD-2.7-X
IC7601 AN2540FHQ
IC7602 BA10532F
IC7604 SN74LV08APW
IC7605
Q7607
Q7608 DTC144EE
Q7609 DTC144EE
Q7610 DTA144EE
Q7605
Q7606
TO SPEAKER CN765 QGA1201F2-02X
SPK-
SPK+
CN761
TO SYSCON CN101
TO AUDIO CN101
TO REG CN101
TO CAM DSP CN101
TO DSC/USB CN101
OPEN
TO C VF/B/W VF UNIT CN763 QGF0507F3-20X
TO LCD BL CN751
CN764 QGF0305F1-33X
TO MULTI MEDIA CARD
CN766
OPEN
SW1 LIGHT_SW
SW2 STOP
SW3 REW
SW4 FF
SW5 PLAY/PAUSE
SW6 DSC
SW7601 NSW0105-001X OPEN SW
D1 SML-110LT-X TALLY LAMP
BT1 QAB0025-001 LITIUM
L7601
L7602
L7603
L7604
L7605
L7607
L10
VF_LCD

※ NO WEAR

y10194001a_rev0

	R7110	R7111	R7112	R7113	R7114	R7115	Q7607	R7626	R7627	R7628	R7629	R7640	R7641	R7642	R7643	R7644	R7645	R7646	C7638	C7639
CVF MODEL	※	※	※	※	※	※	UMZ1N	18K	330K	220K	39K	0	0	0	0	0	0	0	2.2	10/10
B/W VF MODEL	0	0	0	0	0	0	※	※	※	※	※	※	※	※	※	※	※	※	※	※

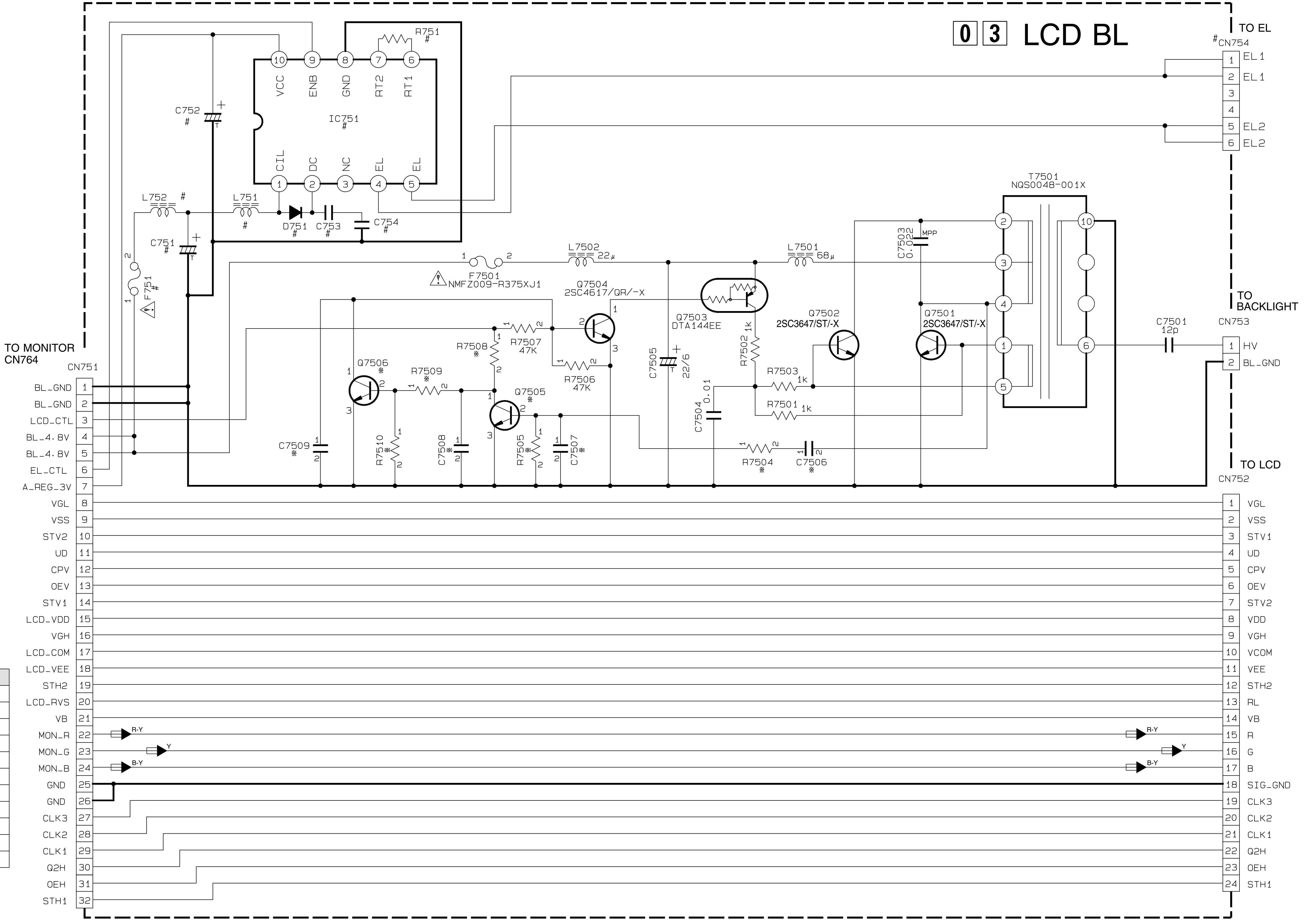
	Q7605	Q7606	L7605	L7606	R7612	R7621	R7622	R7623	R7624	R7625	C7636
2.5inch MODEL	※	※	10	※	22K	0	※	※	※	※	※
3/3.5inch MODEL	DTA144EE	DTC144EE	※	10	6.8K	※	22K	22K	22K	22K	0.1

	R7634	CN761	CN766	SW6	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R21	R22	R23	R24	R27	C11	L10
With DSC	※	QGF0508F1-50X	NNZ0052-001X	NSW0099-001X	0	0	0	0	0	0	0	0	47K	10K	10K	47K	100K	0	0	10/6.3	NQR0129-002X
Without DSC	0	QGF0508F1-40X	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※

	R1	R2	SW1
With LIGHT	10K	10K	NSW0092-001X
Without LIGHT	※	※	※

4.17 LCD BL SCHEMATIC DIAGRAM

NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- When ordering parts, be sure to order according to the Part Number indicated in the Parts List.


03 LCD BL
TO MONITOR CN764
CN751
BL_GND 1
BL_GND 2
LCD_CTL 3
BL_4.8V 4
BL_4.8V 5
EL_CTL 6
A_REG_3V 7
VGL 8
VSS 9
STV2 10
UD 11
CPV 12
OEV 13
STV1 14
LCD_VDD 15
VGH 16
LCD_COM 17
LCD_VEE 18
STH2 19
LCD_RVS 20
VB 21
MON_R 22
MON_G 23
MON_B 24
GND 25
GND 26
CLK3 27
CLK2 28
CLK1 29
Q2H 30
OEH 31
STH1 32
R-Y
Y
B-Y
IC751 #
VCC ENB GND RT2 RT1
CIL DC NC EL EL
R751 #
C752 #
L752 #
L751 #
D751 #
C753 #
C754 #
C751 #
F751 #
F7501 NMFZ009-R375XJ1
L7502 22μ
L7501 68μ
C7503 0.022 MPP
T7501 NQS004B-001X
Q7504 2SC4617/QR/-X
Q7503 DTA144EE
Q7502 2SC3647/ST/-X
Q7501 2SC3647/ST/-X
Q7506 ※
Q7505 ※
R7508 ※
R7507 47K
R7506 47K
R7509 ※
R7510 ※
R7505 ※
R7502 1k
R7503 1k
R7501 1k
R7504 ※
C7509 ※
C7508 ※
C7507 ※
C7505 22/6
C7504 0.01
C7506 ※
C7501 12p
TO EL
# CN754
1 EL1
2 EL1
3
4
5 EL2
6 EL2
TO BACKLIGHT
CN753
1 HV
2 BL_GND
TO LCD
CN752
1 VGL
2 VSS
3 STV1
4 UD
5 CPV
6 OEV
7 STV2
8 VDD
9 VGH
10 VCOM
11 VEE
12 STH2
13 RL
14 VB
15 R
16 G
17 B
18 SIG_GND
19 CLK3
20 CLK2
21 CLK1
22 Q2H
23 OEH
24 STH1
5
4
3
2
1

: EXCHANGE PARTS LIST

	With EL	Without EL
IC751	MIP805	※
F751	NMFZ007-R20X-K	※
D751	1SS376	※
L751	680	※
L752	10	※
R751	100K	※
C751	10/6.3	※
C752	10/6.3	※
C753	2200p	※
C754	2200p	※
CN754	QGF0505F2-06X	※

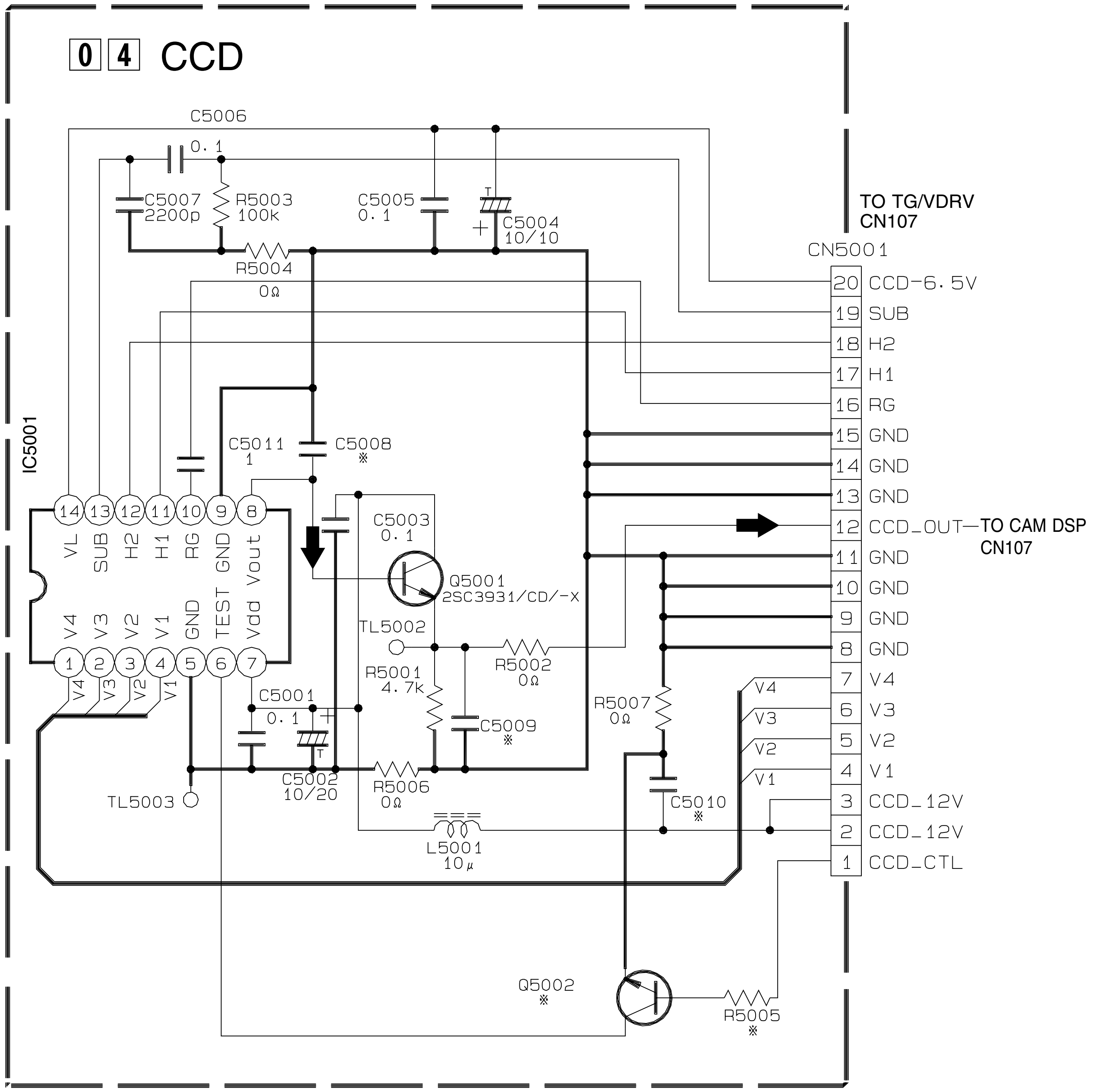
※ NO WEAR

y30127001a_rev0

4.18 CCD SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

- *IC5001 is incorporated in the CCD base assembly. When IC5001 needs replacement, replace the CCD base assembly in whole because it cannot be re-placed alone.*

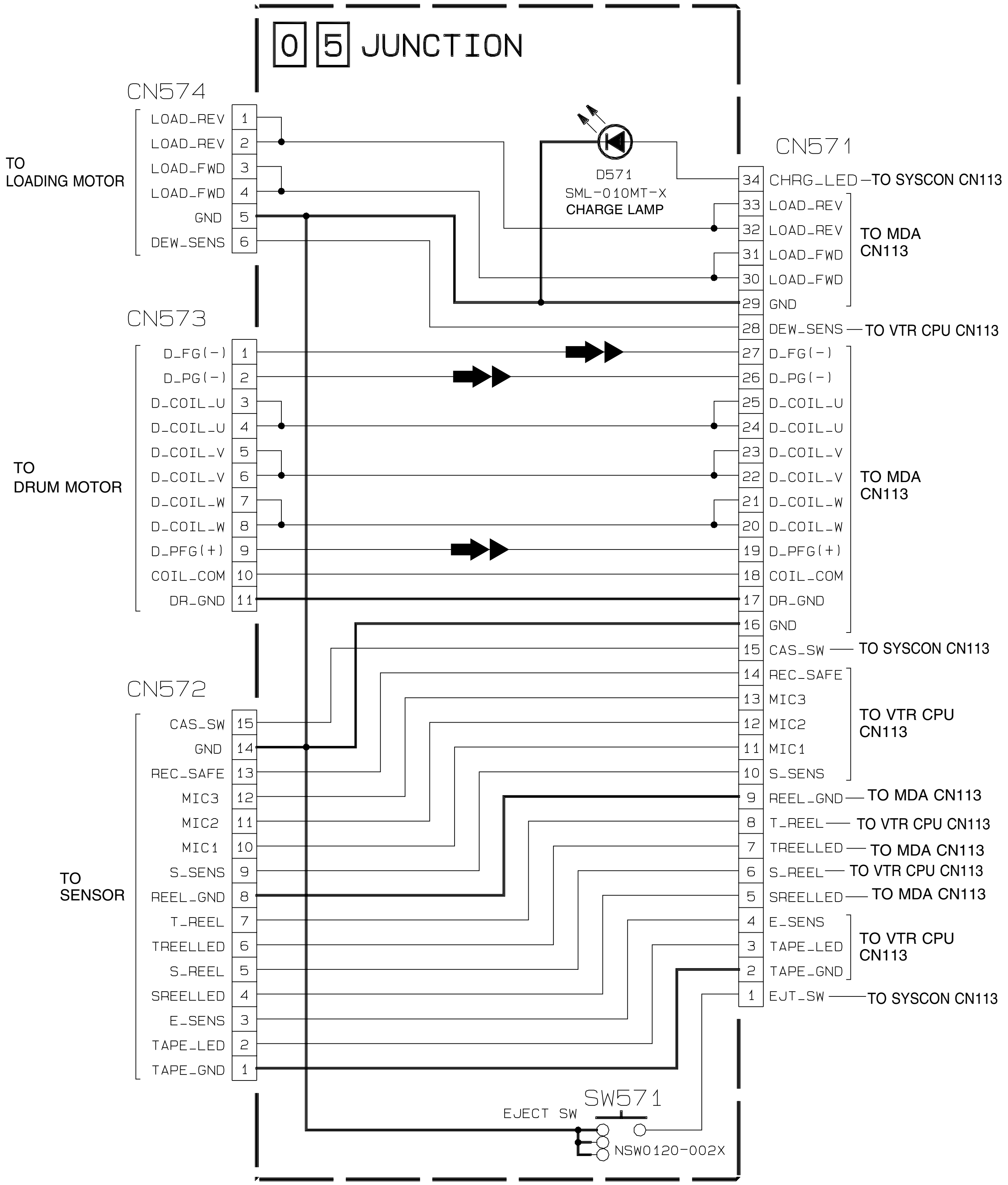

0 4 CCD
C5006
0.1
C5007
2200p
R5003
100k
C5005
0.1
C5004
10/10
R5004
0Ω
TO TG/VDRV
CN107
CN5001
20 CCD-6.5V
19 SUB
18 H2
17 H1
16 RG
15 GND
14 GND
13 GND
12 CCD_OUT
11 GND
10 GND
9 GND
8 GND
7 V4
6 V3
5 V2
4 V1
3 CCD_12V
2 CCD_12V
1 CCD_CTL
TO CAM DSP
CN107
IC5001
14 VL
13 SUB
12 H2
11 H1
10 RG
9 GND
8 Vout
1 V4
2 V3
3 V2
4 V1
5 GND
6 TEST
7 Vdd
C5011
1
C5008
※
C5003
0.1
Q5001
2SC3931/CD/-X
TL5002
R5001
4.7k
R5002
0Ω
C5009
※
R5007
0Ω
C5001
0.1
C5002
10/20
R5006
0Ω
L5001
10μ
C5010
※
TL5003
Q5002
※
R5005
※

※ NO WEAR

y40071001a_rev0

4.19 JUNCTION SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

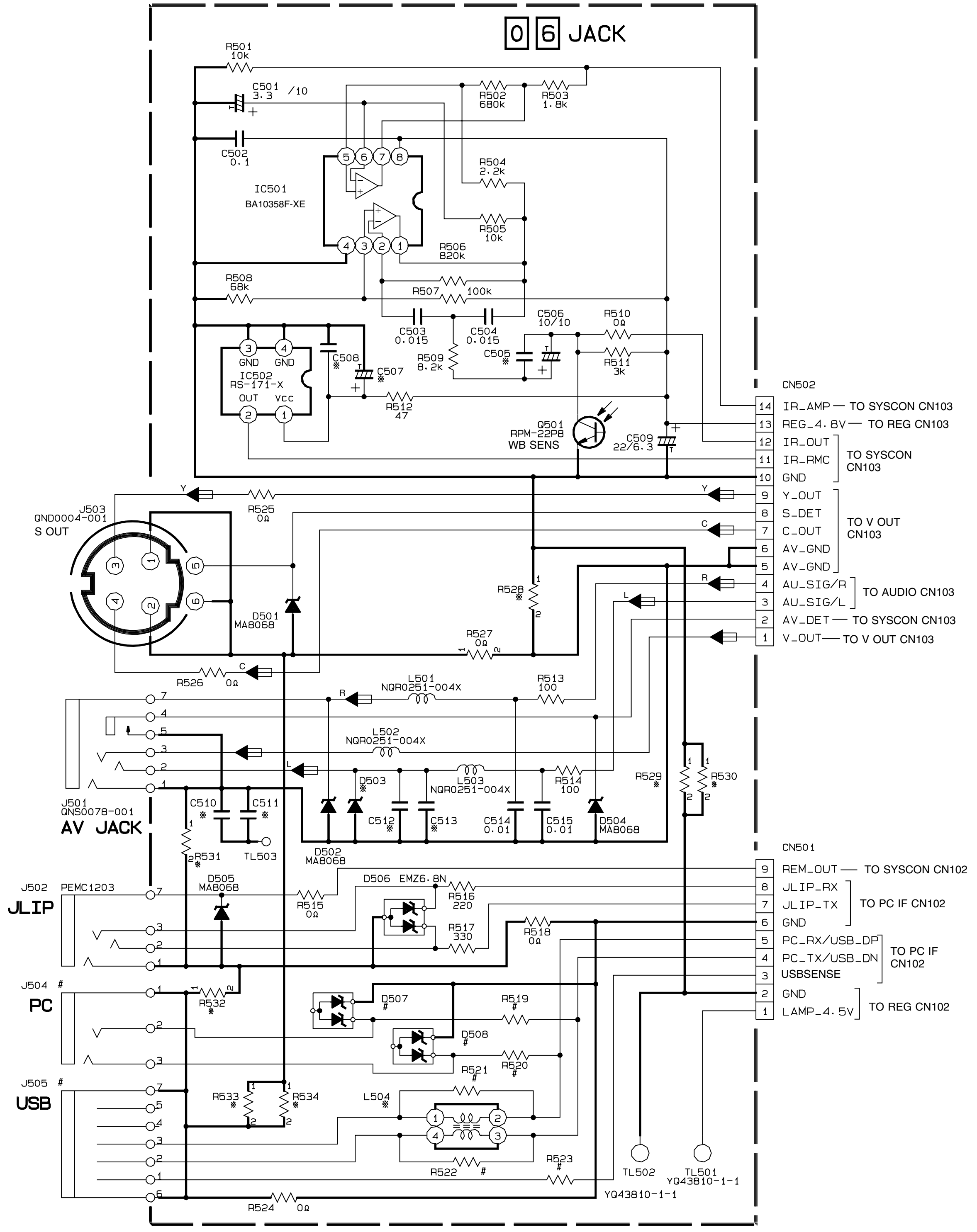

0 5 JUNCTION
CN574
LOAD_REV 1
LOAD_REV 2
LOAD_FWD 3
LOAD_FWD 4
GND 5
DEW_SENS 6
TO LOADING MOTOR
D571
SML-010MT-X
CHARGE LAMP
CN573
D_FG(-) 1
D_PG(-) 2
D_COIL_U 3
D_COIL_U 4
D_COIL_V 5
D_COIL_V 6
D_COIL_W 7
D_COIL_W 8
D_PFG(+) 9
COIL_COM 10
DR_GND 11
TO DRUM MOTOR
CN572
CAS_SW 15
GND 14
REC_SAFE 13
MIC3 12
MIC2 11
MIC1 10
S_SENS 9
REEL_GND 8
T_REEL 7
TREELLED 6
S_REEL 5
SREELLED 4
E_SENS 3
TAPE_LED 2
TAPE_GND 1
TO SENSOR
CN571
34 CHRG_LED — TO SYSCON CN113
33 LOAD_REV
32 LOAD_REV
31 LOAD_FWD
30 LOAD_FWD
29 GND
TO MDA CN113
28 DEW_SENS — TO VTR CPU CN113
27 D_FG(-)
26 D_PG(-)
25 D_COIL_U
24 D_COIL_U
23 D_COIL_V
22 D_COIL_V
21 D_COIL_W
20 D_COIL_W
19 D_PFG(+)
18 COIL_COM
17 DR_GND
16 GND
TO MDA CN113
15 CAS_SW — TO SYSCON CN113
14 REC_SAFE
13 MIC3
12 MIC2
11 MIC1
10 S_SENS
TO VTR CPU CN113
9 REEL_GND — TO MDA CN113
8 T_REEL — TO VTR CPU CN113
7 TREELLED — TO MDA CN113
6 S_REEL — TO VTR CPU CN113
5 SREELLED — TO MDA CN113
4 E_SENS
3 TAPE_LED
2 TAPE_GND
TO VTR CPU CN113
1 EJT_SW — TO SYSCON CN113
SW571
EJECT SW
NSW0120-002X

y40069001a_rev0

4.20 JACK SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*

● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



06 JACK
R501 10k
C501 3.3 /10
C502 0.1
R502 680k
R503 1.8k
IC501 BA10358F-XE
R504 2.2k
R505 10k
R506 820k
R508 68k
R507 100k
C503 0.015
C504 0.015
R509 8.2k
C505 ※
C506 10/10
R510 0Ω
R511 3k
IC502 RS-171-X
GND GND OUT Vcc
C508 ※
C507 ※
R512 47
Q501 RPM-22P8 WB SENS
C509 22/6.3
CN502
14 IR_AMP — TO SYSCON CN103
13 REG_4.8V — TO REG CN103
12 IR_OUT
11 IR_RMC
10 GND
TO SYSCON CN103
9 Y_OUT
8 S_DET
7 C_OUT
6 AV_GND
5 AV_GND
TO V OUT CN103
4 AU_SIG/R
3 AU_SIG/L
TO AUDIO CN103
2 AV_DET — TO SYSCON CN103
1 V_OUT — TO V OUT CN103
J503 QND0004-001 S OUT
R525 0Ω
D501 MA8068
R528 ※
R527 0Ω
R526 0Ω
L501 NQR0251-004X
R513 100
L502 NQR0251-004X
L503 NQR0251-004X
R514 100
D503 ※
R529 ※
R530 ※
J501 QNS0078-001 AV JACK
C510 ※
C511 ※
R531 ※
TL503
D502 MA8068
C512 ※
C513 ※
C514 0.01
C515 0.01
D504 MA8068
CN501
9 REM_OUT — TO SYSCON CN102
8 JLIP_RX
7 JLIP_TX
6 GND
TO PC IF CN102
5 PC_RX/USB_DP
4 PC_TX/USB_DN
3 USBSENSE
TO PC IF CN102
2 GND
1 LAMP_4.5V
TO REG CN102
J502 PEMC1203 JLIP
D505 MA8068
R515 0Ω
D506 EMZ6.8N
R516 220
R517 330
R518 0Ω
J504 # PC
R532 ※
D507 #
R519 #
D508 #
R520 #
R521 #
J505 # USB
R533 ※
R534 ※
L504 ※
R522 #
R523 #
R524 0Ω
TL502 YQ43810-1-1
TL501 YQ43810-1-1
Y C R L

※ NO WEAR

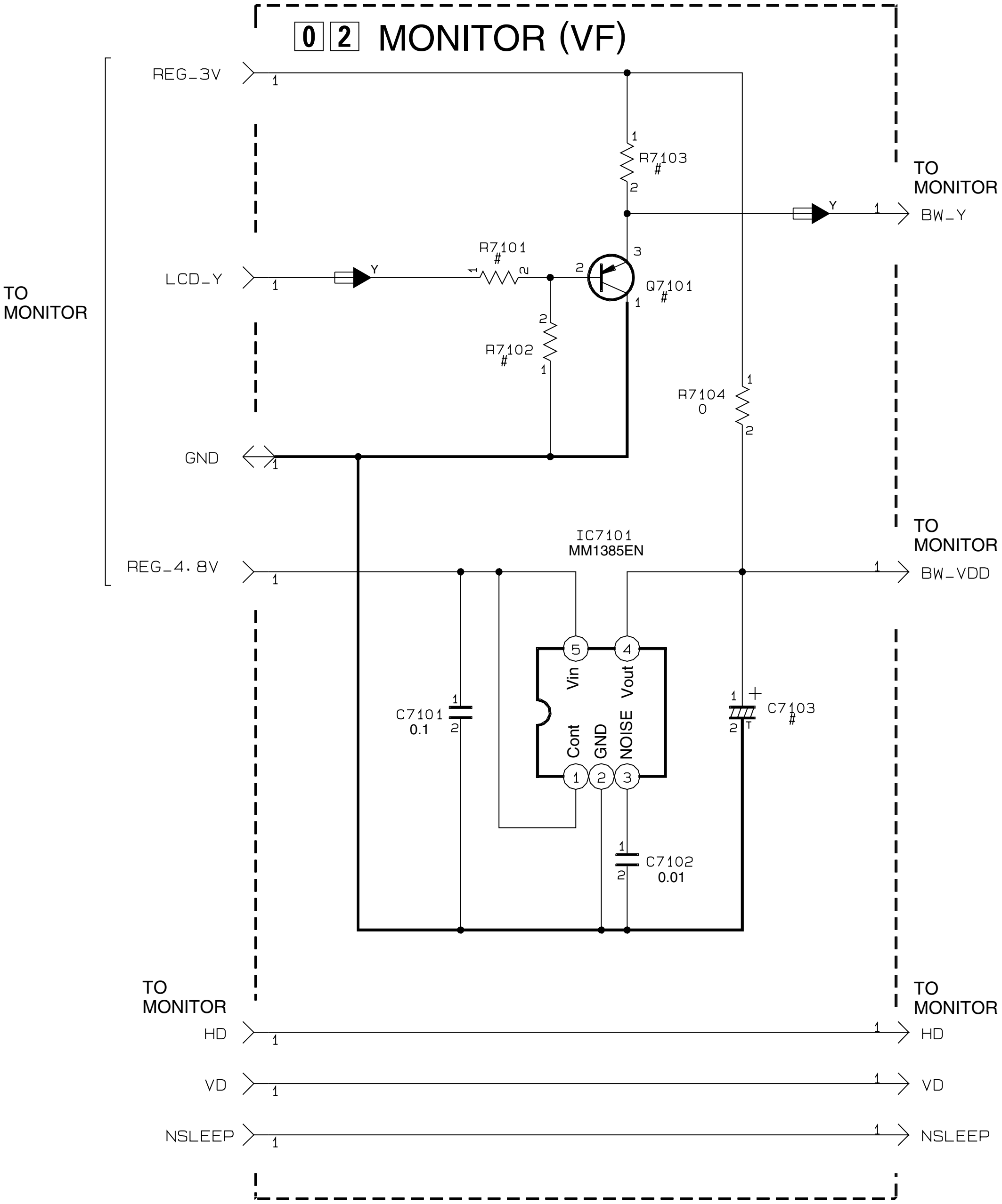
y40068001a_rev0

EXCHANGE PARTS LIST

	J504	J505	R519, R520	R521~R523	D507, D508
Without DSC	QNS0152-001	※	330	※	EMZ6.8N-X
With DSC	※	QNZ0497-001	※	0Ω	※

4.21 VF SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*


0 2 MONITOR (VF)
REG_3V
TO MONITOR
LCD_Y
GND
REG_4.8V
R7103 #
TO MONITOR
BW_Y
R7101 #
Q7101 #
R7102 #
R7104 0
IC7101
MM1385EN
TO MONITOR
BW_VDD
Vin
Vout
Cont
GND
NOISE
C7101 0.1
C7103 #
C7102 0.01
TO MONITOR
HD
VD
NSLEEP
TO MONITOR
HD
VD
NSLEEP

y40070001a_rev0

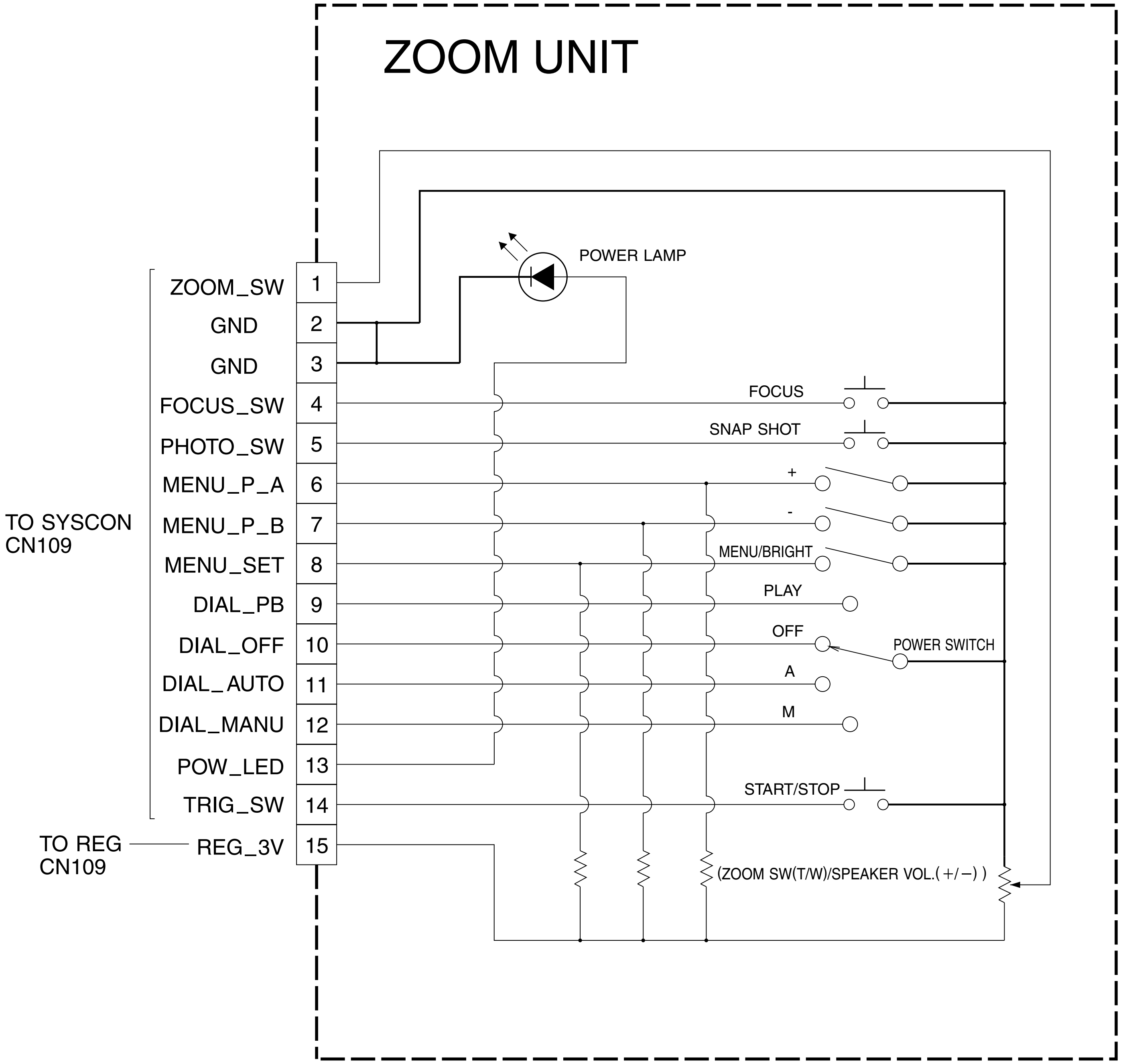
#: EXCHANGE PARTS LIST

	CVF MODEL	B/W VF MODEL
Q7101	※	2SA1774/QR/-X
R7101	※	5.6K
R7102	※	5.6K
R7103	※	10K
C7103	※	4.7/6.3

※ NO WEAR

4.22 ZOOM UNIT SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *The schematic diagram is only for reference. Avoid replacing individual parts. Replace the entire unit only.*

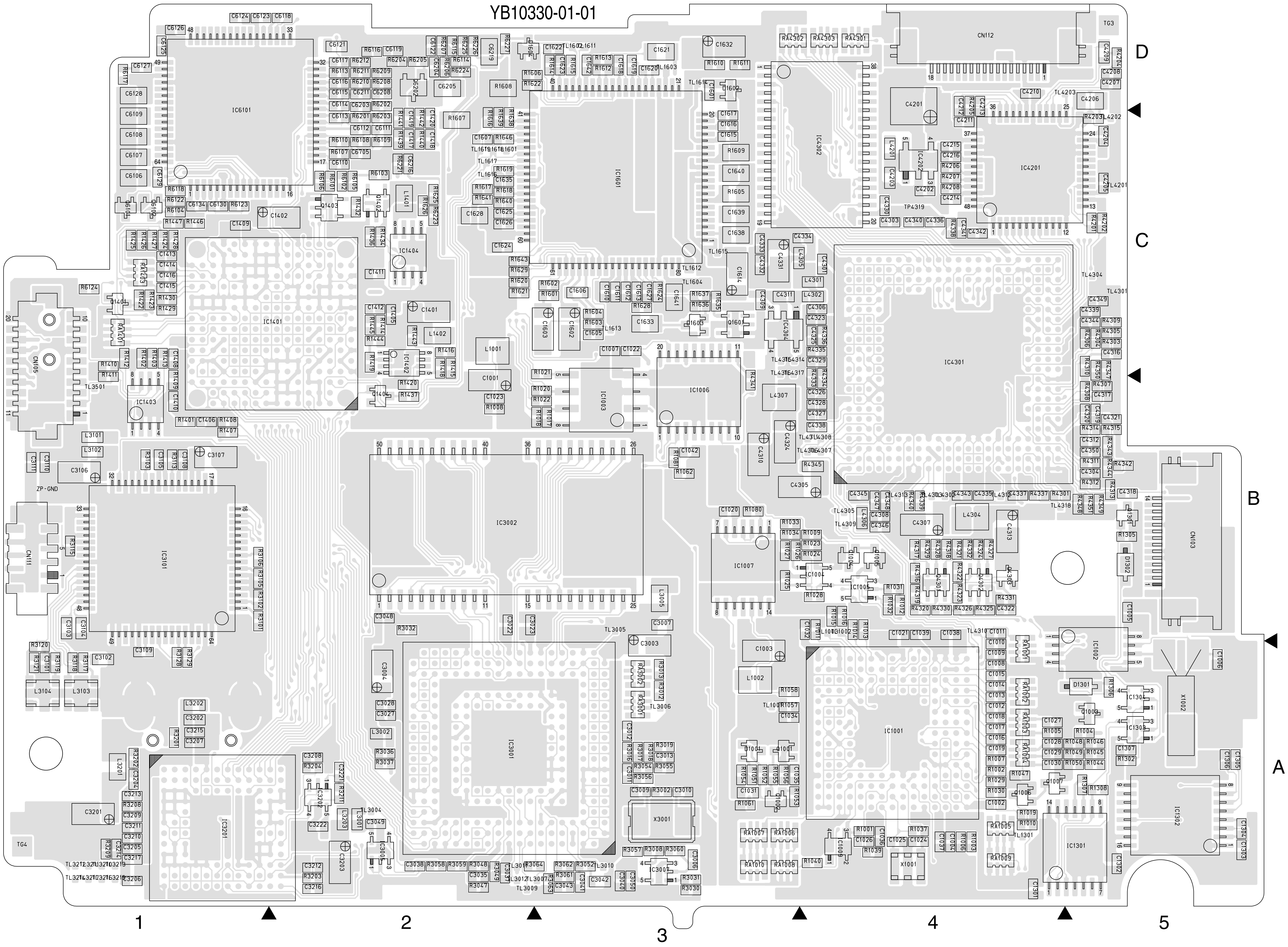

ZOOM UNIT
POWER LAMP
TO SYSCON CN109
ZOOM_SW 1
GND 2
GND 3
FOCUS_SW 4
PHOTO_SW 5
MENU_P_A 6
MENU_P_B 7
MENU_SET 8
DIAL_PB 9
DIAL_OFF 10
DIAL_AUTO 11
DIAL_MANU 12
POW_LED 13
TRIG_SW 14
TO REG CN109
REG_3V 15
FOCUS
SNAP SHOT
+
-
MENU/BRIGHT
PLAY
OFF
POWER SWITCH
A
M
START/STOP
(ZOOM SW(T/W)/SPEAKER VOL.(+/−))

5
4
3
2
1
A
B
C
D

4.23 MAIN CIRCUIT BOARD

FOIL SIDE(B)

0 1 MAIN PWB
YB10330-01-01


D
C
B
A
1
2
3
4
5
IC6101
IC1601
IC4302
IC4201
IC1401
IC1404
IC1402
IC1403
IC1003
IC1006
IC4301
IC3101
IC3002
IC1007
IC3001
IC3201
IC1001
IC1002
IC1301
IC1302
IC1005
IC1004
IC1303
IC1304
IC3003
IC3002
X1002
X3001
X1001
CN105
CN111
CN112
CN103
L1001
L1002
L4307
L4304
L3104
L3103
L3201
TG3
TG4
ZP-GND
TL3501

COMPONENT PARTS LOCATION GUIDE ＜MAIN＞

REF.NO.	LOCATION		
CAPACITOR			
C1001	B	C	2B
C1002	B	C	4A
C1003	B	C	3A
C1004	B	C	4A
C1005	B	C	5B
C1006	B	C	5A
C1007	B	C	3C
C1008	B	C	4A
C1009	B	C	4A
C1010	B	C	4A
C1011	B	C	4B
C1012	B	C	4A
C1013	B	C	4A
C1014	B	C	4A
C1015	B	C	4A
C1016	B	C	4A
C1017	B	C	4A
C1018	B	C	4A
C1019	B	C	4A
C1020	B	C	3B
C1021	B	C	4B
C1022	B	C	3C
C1023	B	C	2B
C1024	B	C	4A
C1025	B	C	4A
C1026	B	C	4A
C1027	B	C	4A
C1028	B	C	4A
C1029	B	C	4A
C1030	B	C	4A
C1031	B	C	3A
C1032	B	C	4B
C1034	B	C	3A
C1035	B	C	3A
C1036	B	C	4A
C1037	B	C	4A
C1038	B	C	4B
C1039	B	C	4B
C1040	A	C	1B
C1041	A	C	1B
C1042	B	C	3B
C1301	B	C	4A
C1302	B	C	5A
C1303	B	C	5A
C1304	B	C	5A
C1305	B	C	5A
C1306	B	C	5A
C1307	B	C	5A
C1401	B	C	2C
C1402	B	C	2C
C1405	B	C	2C
C1406	B	C	1B
C1408	B	C	1C
C1409	B	C	1C
C1410	B	C	1B
C1411	B	C	2C
C1412	B	C	2C
C1413	B	C	1C
C1414	B	C	1C
C1415	B	C	1C
C1416	B	C	1C
C1417	B	C	2C
C1418	B	C	2C
C1419	B	C	2C
C1420	B	C	2C
C1601	B	C	3D
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C1627	B	C	3C
C1628	B	C	2C
C1632	B	C	3D
C1633	B	C	3C
C1635	B	C	2C
C1638	B	C	3C
C1639	B	C	3C
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C2007	A	C	4A
C2008	A	C	4A
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C2013	A	C	4A
C2014	A	C	4A
C2015	A	C	5B
C2016	A	C	4A
C2017	A	C	4A
C2018	A	C	4A
C2019	A	C	4A
C2020	A	C	4A
C2021	A	C	4A
C2101	A	C	5A
C2102	A	C	5A
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C6229	A	C	2C
C6230	A	C	2A
C6231	A	C	5B
C6701	A	C	2C
C6702	A	C	1C
C6703	A	C	1D
C6704	A	C	1C
C6705	B	C	2C
CONNECTOR			
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CN102	A	C	5B
CN103	B	C	5B
CN104	A	C	1B
CN105	B	C	1B
CN106	A	C	5A
CN107	A	C	4D
CN108	A	C	4C
CN109	A	C	1D
CN110	A	C	2D
CN111	B	C	1B
CN112	B	C	4D
CN113	A	C	3D
DIODE			
D1001	B	C	3A
D1301	B	C	5A
D1302	B	C	5B
D1602	B	C	3D
D1603	B	C	3C
D1604	B	C	2D
D2001	A	C	4A
D2002	A	C	4A
D3701	A	C	3B
D5501	A	C	3C
D6002	A	C	1A
D6201	A	C	2A
D6202	A	C	2B
D6203	A	C	1B
D6204	A	C	2B
D6205	A	C	2B
D6206	A	C	1A
D6207	A	C	2A
D6701	A	C	1C
D6702	A	C	2C
IC			
IC1001	B	C	4A
IC1002	B	C	5A
IC1003	B	C	3B
IC1004	B	C	4B
IC1005	B	C	4B
IC1006	B	C	3B
IC1007	B	C	3B
IC1009	B	C	4A
IC1301	B	C	5A
IC1302	B	C	5A
IC1303	B	C	5A
IC1304	B	C	5A
IC1401	B	C	2C
IC1402	B	C	2C
IC1403	B	C	1B
IC1404	B	C	2C
IC1601	B	C	3C
IC2001	A	C	4A
IC2301	A	C	4B
IC3001	B	C	2A
IC3002	B	C	2B
IC3005	B	C	2A
IC3007	B	C	3A
IC3101	B	C	1B
IC3201	B	C	1A
IC3202	B	C	2A
IC3301	A	C	3A
IC3501	A	C	2C
IC3701	A	C	3B
IC4201	B	C	4C
IC4202	B	C	4C
IC4301	B	C	4C
IC4302	B	C	4C
IC4304	B	C	3C
IC4802	A	C	3C
IC4803	A	C	4C
IC4804	A	C	3B
IC4806	A	C	4B
IC4851	A	C	4B
IC5501	A	C	4C
IC6001	A	C	1A
IC6101	B	C	1C
COIL			
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L1002	B	C	3A
L1401	B	C	2C
L1402	B	C	2C
L2001	A	C	4A
L2002	A	C	4B
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L6207	A	C	2C
L6208	A	C	1A
L6209	A	C	1A
L6210	A	C	1A
L6701	A	C	1C
TRANSISTOR			
Q1001	B	C	3A
Q1002	B	C	3A
Q1003	B	C	5A
Q1004	B	C	4B
Q1005	B	C	4B
Q1006	B	C	4A
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Q1402	B	C	2C
Q1403	B	C	2C
Q1404	B	C	2B
Q1601	B	C	3C
Q2001	A	C	4A
Q2002	A	C	4A
Q2004	A	C	4A
Q3501	A	C	2C
Q3502	A	C	2C
Q3503	A	C	2C
Q3504	A	C	3C
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Q6202	B	C	2D
Q6203	A	C	2B
Q6204	A	C	2B
Q6205	A	C	3B
Q6206	A	C	3B
Q6207	A	C	1B

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Q6216	A	C	2A
Q6217	A	C	1B
Q6701	A	C	2C
RESISTOR			
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R1002	B	C	4A
R1003	B	C	4A
R1004	B	C	5A
R1005	B	C	4A
R1006	B	C	4A
R1007	B	C	4A
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R1016	B	C	4B
R1017	B	C	3B
R1018	B	C	3B
R1019	B	C	4A
R1020	B	C	3B
R1021	B	C	3C
R1022	B	C	3B
R1023	B	C	4B
R1024	B	C	4B
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R1026	B	C	3B
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R1432	B	C	2C
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R6713	A	C	1B
RA1001	B	C	4A
RA1002	B	C	4A
RA1003	B	C	4A
RA1004	B	C	4A
RA1005	B	C	4A
RA1006	B	C	3A
RA1007	B	C	3A
RA1008	B	C	3A
RA1009	B	C	4A
RA1010	B	C	3A
RA1401	B	C	1C
RA1403	B	C	1C
RA3001	B	C	3A
RA3002	B	C	3A
RA4301	B	C	4D
RA4302	B	C	3D
RA4303	B	C	4D
TESTPOINT			
TP4319	B	C	4C
OTHER			
F6101	A	C	1B
J101	A	D	1A
S6001	A	C	1C
TL1001	B	C	3A
TL1002	B	C	4B
TL1003	B	C	4B
TL1301	B	C	4A
TL1401	A	C	1C
TL1402	A	C	1C
TL1403	A	C	1C
TL1404	A	C	1C
TL1406	A	C	1C
TL1407	A	C	1C
TL1410	A	C	1C
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TL1415	A	C	1C
TL1416	A	C	1C
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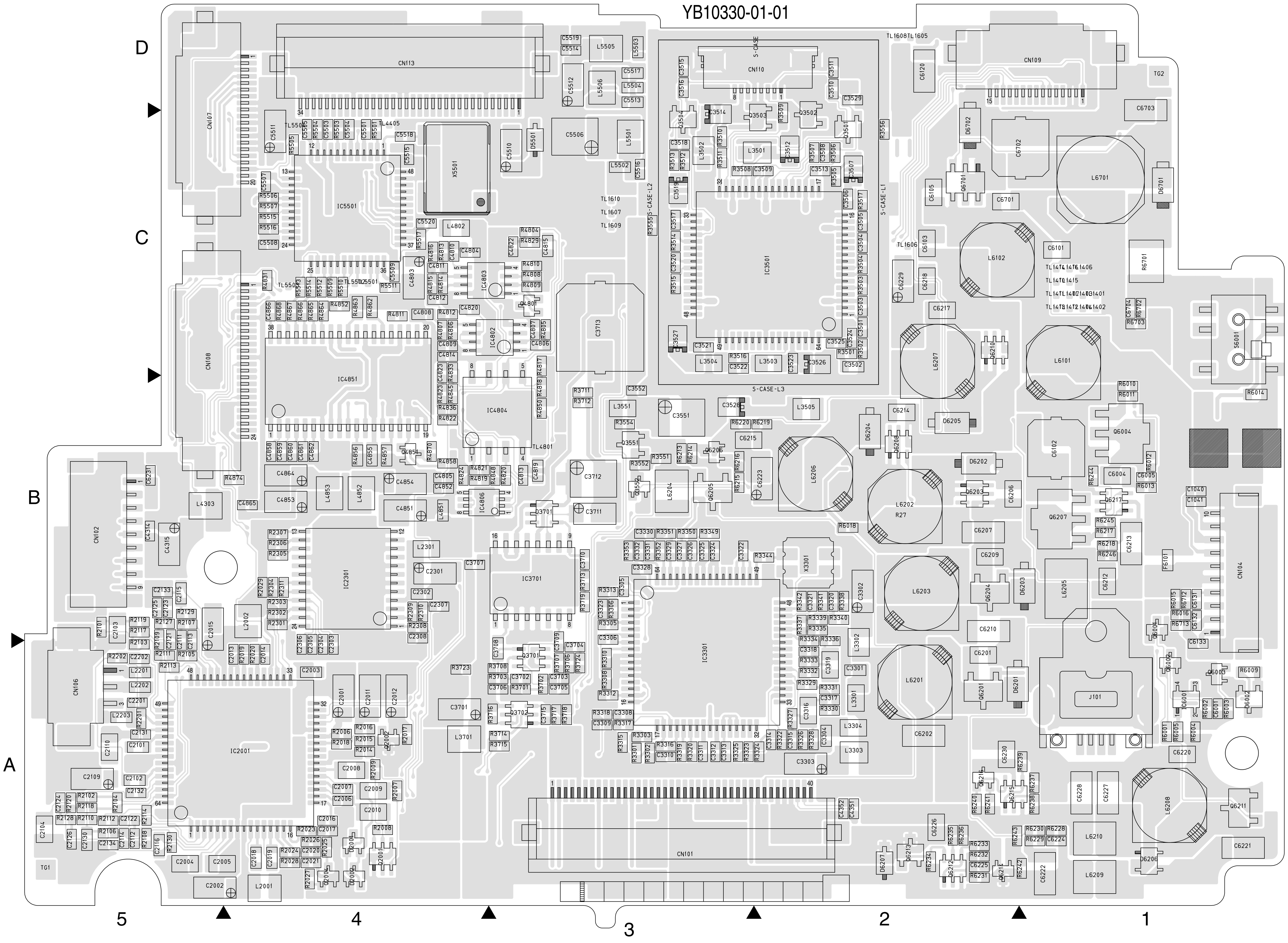
TL4313	B	C	4B
TL4314	B	C	3C
TL4315	B	C	3C
TL4316	B	C	3C
TL4317	B	C	3C
TL4318	B	C	4B
TL4405	A	C	4C
TL4801	A	C	3B
TL5501	A	C	4C
TL5502	A	C	4C
TL5503	A	C	4C
TL5504	A	C	4C
X1001	B	C	4A
X1002	B	C	5A
X3001	B	C	3A
X3301	A	C	2B
X5501	A	C	4C

COMPONENT SIDE(A)

01 MAIN PWB
YB10330-01-01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IC4802
IC4804
IC4806
IC3501
IC2301
IC3701
IC3301
IC2001
X5501
X3301
J101
L6701
L6102
L6207
L6101
L6206
L6202
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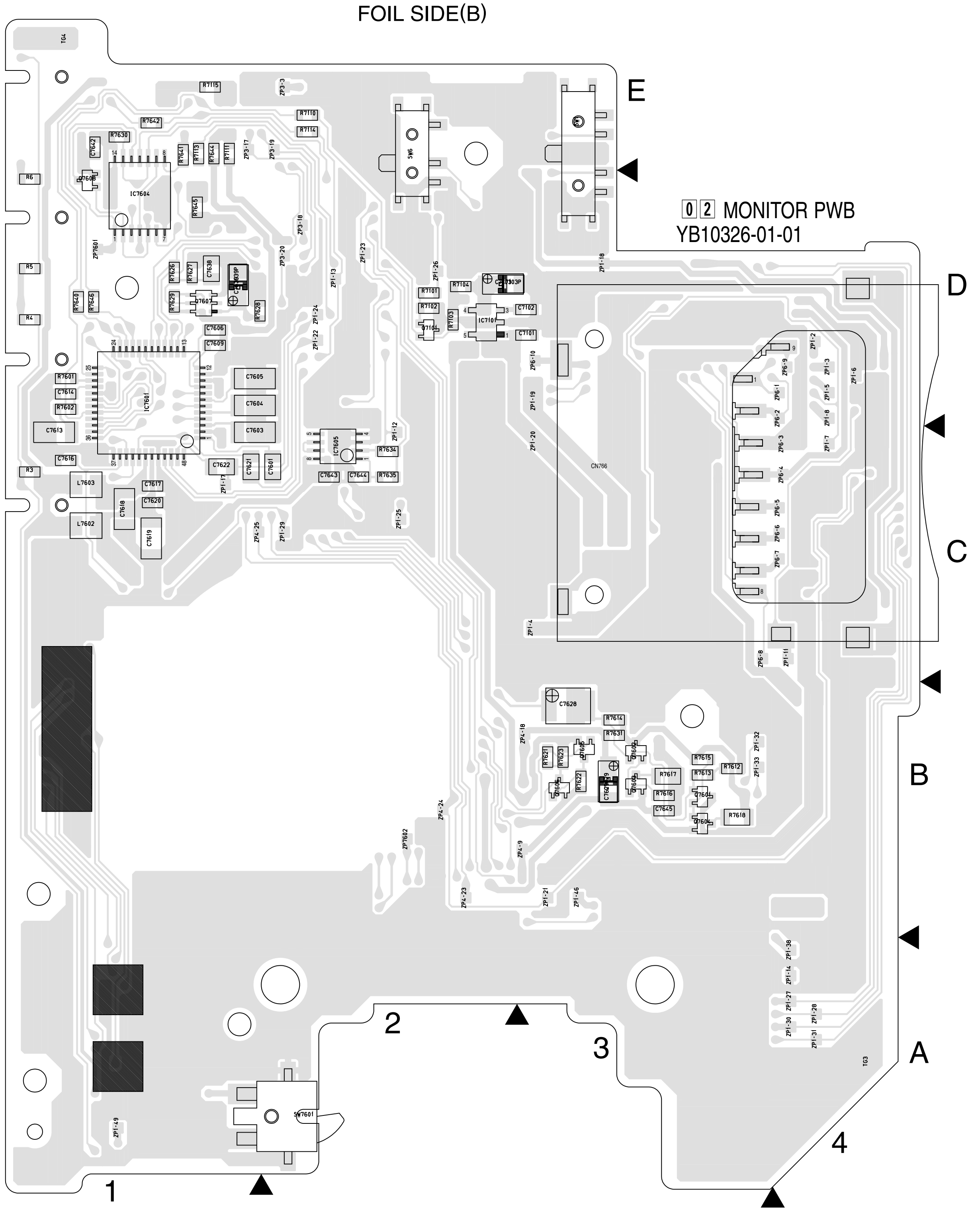
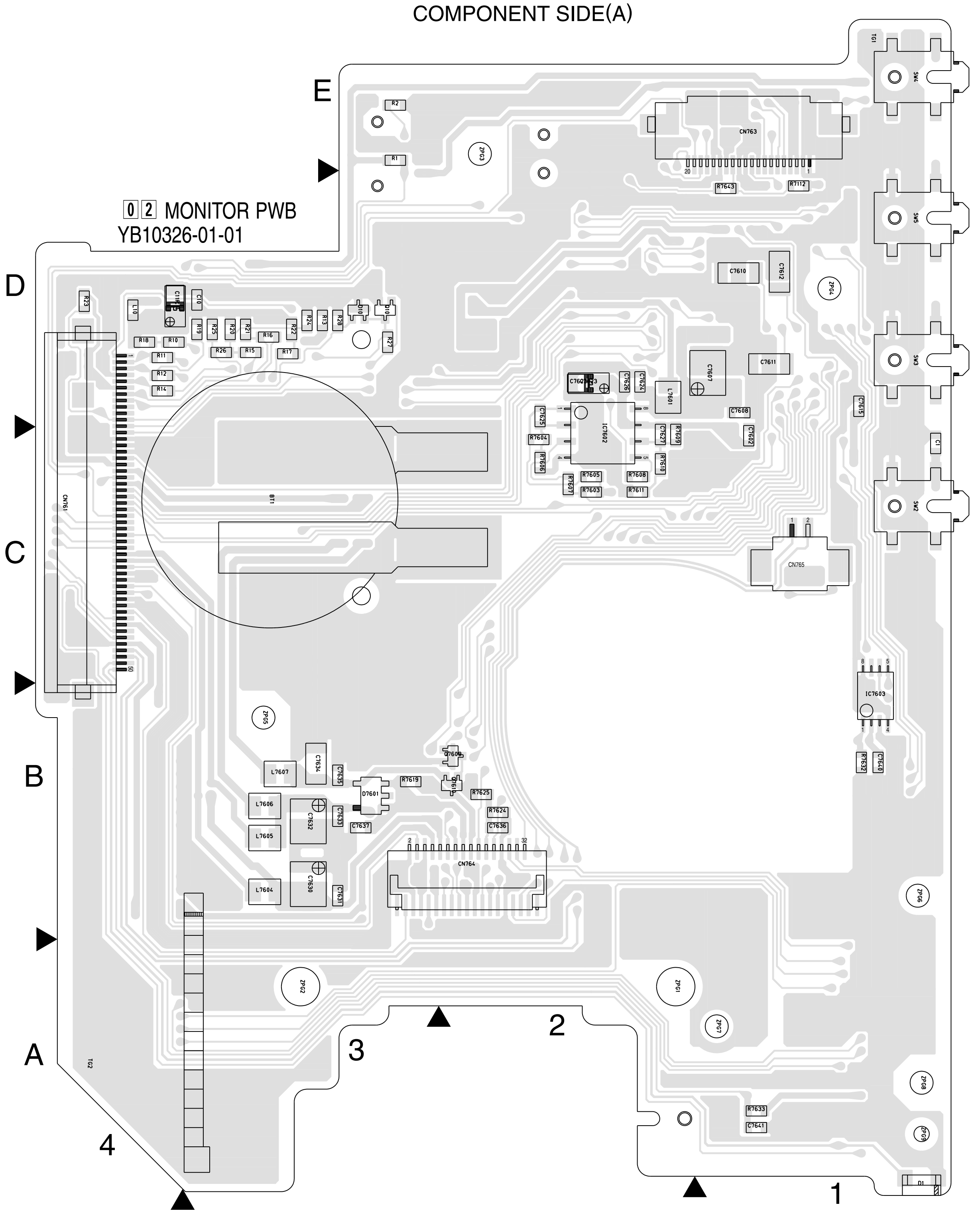
S6001
TG1
TG2

4.24 MONITOR CIRCUIT BOARD [GR-DVL150EG/EK]

FOIL SIDE(B)



COMPONENT SIDE(A)



COMPONENT PARTS LOCATION GUIDE ＜MONITOR＞ [GR-DVL150EG/EK]

REF.NO.	LOCATION		
CAPACITOR			
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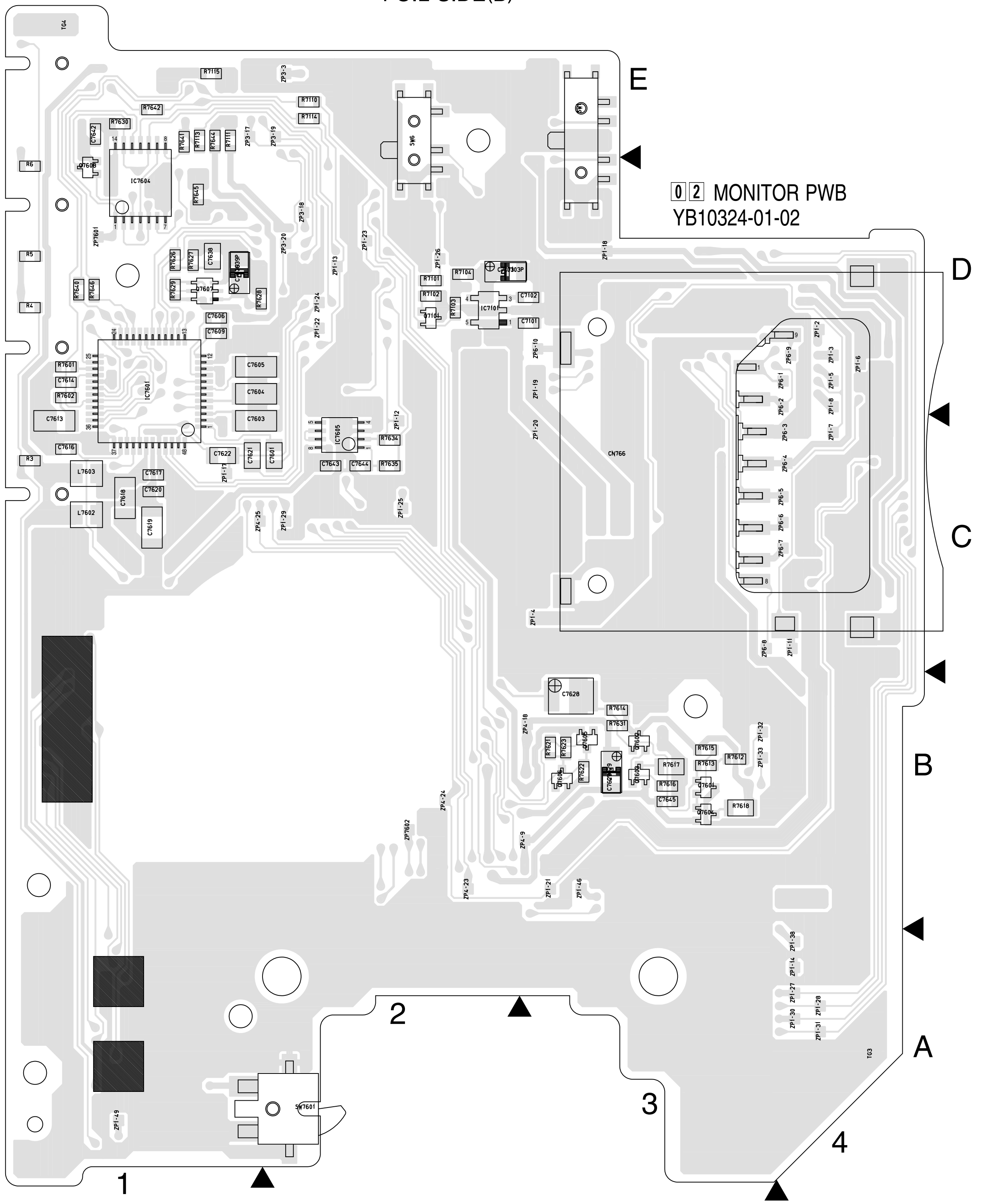
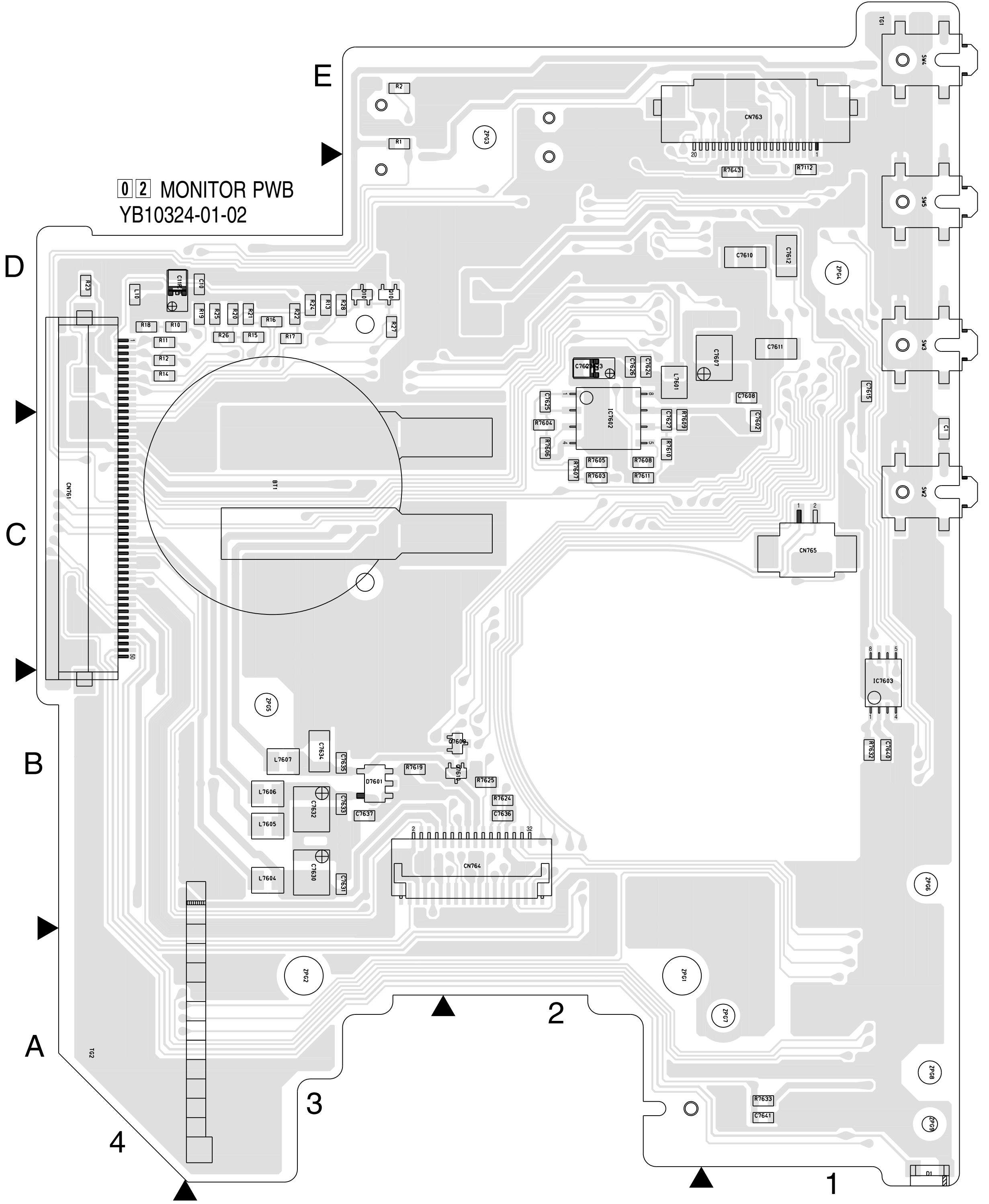
C10	A	C	3D
C11	A	C	3D
C7101	B	C	2D
C7102	B	C	2D
C7103	B	C	2D
C7601	B	C	1C
C7602	A	C	1C
C7603	B	C	1C
C7604	B	C	1D
C7605	B	C	1D
C7606	B	C	1D
C7607	A	C	1D
C7608	A	C	1D
C7609	B	C	1D
C7610	A	C	1D
C7611	A	C	1D
C7612	A	C	1D
C7613	B	C	1C
C7614	B	C	1D
C7615	A	C	1D
C7616	B	C	1C
C7617	B	C	1C
C7618	B	C	1C
C7619	B	C	1C
C7620	B	C	1C
C7621	B	C	1C
C7622	B	C	1C
C7623	A	C	2D
C7624	A	C	2D
C7625	A	C	2D
C7626	A	C	2D
C7627	A	C	2C
C7628	B	C	3B
C7629	B	C	3B
C7630	A	C	3B
C7631	A	C	3B
C7632	A	C	3B
C7633	A	C	3B
C7634	A	C	3B
C7635	A	C	3B
C7636	A	C	2B
C7637	A	C	3B
C7638	B	C	1D
C7639	B	C	1D
C7640	A	C	1B
C7641	A	C	1A
C7642	B	C	1E
C7643	B	C	2C
C7644	B	C	2C
C7645	B	C	3B
CONNECTOR			
CN761	A	C	4D
CN763	A	C	1E
CN764	A	C	3B
CN765	A	C	1C
CN766	B	C	4C
DIODE			
D1	A	C	1A
D10	A	C	3D
D7601	A	C	3B
IC			
IC7101	B	C	2D
IC7601	B	C	1D
IC7602	A	C	2C
IC7603	A	C	1B
IC7604	B	C	1D
IC7605	B	C	2C
COIL			
L10	A	C	4D
L7601	A	C	2D
L7602	B	C	1C
L7603	B	C	1C
L7604	A	C	3B
L7605	A	C	3B
L7606	A	C	3B
L7607	A	C	3B
TRANSISTOR			
Q10	A	C	3D
Q7101	B	C	2D
Q7601	B	C	3B
Q7602	B	C	3B
Q7603	B	C	3B
Q7604	B	C	3B
Q7605	B	C	3B
Q7606	B	C	3B
Q7607	B	C	1D
Q7608	B	C	1D
Q7609	A	C	2B
Q7610	A	C	2B
RESISTOR			
R1	A	C	3E
R2	A	C	3E
R3	B	C	1C
R4	B	C	1D
R5	B	C	1D
R6	B	C	1D
R10	A	C	3D
R11	A	C	4D
R12	A	C	4D
R13	A	C	3D
R14	A	C	4D
R15	A	C	3D
R16	A	C	3D
R17	A	C	3D
R18	A	C	4D
R19	A	C	3D
R20	A	C	3D
R21	A	C	3D
R22	A	C	3D
R23	A	C	4D
R24	A	C	3D
R25	A	C	3D
R26	A	C	3D
R27	A	C	3D
R28	A	C	3D
R7101	B	C	2D
R7102	B	C	2D
R7103	B	C	2D
R7104	B	C	2D
R7110	B	C	2E
R7111	B	C	1E
R7112	A	C	1D
R7113	B	C	1E
R7114	B	C	2E
R7115	B	C	1E
R7601	B	C	1D
R7602	B	C	1D
R7603	A	C	2C
R7604	A	C	2C
R7605	A	C	2C
R7606	A	C	2C
R7607	A	C	2C
R7608	A	C	2C
R7609	A	C	2C
R7610	A	C	2C
R7611	A	C	2C
R7612	B	C	3B
R7613	B	C	3B
R7614	B	C	3B
R7615	B	C	3B
R7616	B	C	3B
R7617	B	C	3B
R7618	B	C	3B
R7619	A	C	3B
R7621	B	C	3B
R7622	B	C	3B
R7623	B	C	3B
R7624	A	C	2B
R7625	A	C	2B
R7626	B	C	1D
R7627	B	C	1D
R7628	B	C	1D
R7629	B	C	1D
R7630	B	C	1E
R7631	B	C	3B
R7632	A	C	1B
R7633	A	C	1A
R7634	B	C	2C
R7635	B	C	2C
R7640	B	C	1D
R7641	B	C	1E
R7642	B	C	1E
R7643	A	C	1D
R7644	B	C	1E
R7645	B	C	1D
R7646	B	C	1D
OTHER			
BT1	A	C	3C
C11P	A	C	3D
C7103P	B	C	2D
C7623P	A	C	2D
C7629P	B	C	3B
C7639P	B	C	1D
SW1	B	C	3E
SW2	A	C	1C
SW3	A	C	1D
SW4	A	C	1E
SW5	A	C	1D
SW6	B	C	2E
SW7601	B	C	2A
TM1	A	C	4A
TM03	A	C	4E
TM3	A	C	4E
ZP1-2	B	C	4D
ZP1-3	B	C	4D
ZP1-4	B	C	3C
ZP1-5	B	C	4D
ZP1-6	B	C	4D
ZP1-7	B	C	4C
ZP1-8	B	C	4C
ZP3-3	B	C	2E
ZP4-9	B	C	2B
ZP6-1	B	C	3D
ZP6-2	B	C	3C
ZP6-3	B	C	3C
ZP6-4	B	C	3C
ZP6-5	B	C	3C
ZP6-6	B	C	3C
ZP6-7	B	C	3C
ZP6-8	B	C	3C
ZP6-9	B	C	3D
ZP1-11	B	C	4C
ZP1-12	B	C	2C
ZP1-13	B	C	2D
ZP1-14	B	C	4A
ZP1-17	B	C	1C
ZP1-18	B	C	3D
ZP1-19	B	C	3D
ZP1-20	B	C	3C
ZP1-21	B	C	3B
ZP1-22	B	C	2D
ZP1-23	B	C	2D
ZP1-24	B	C	2D
ZP1-25	B	C	2C
ZP1-26	B	C	2D
ZP1-27	B	C	4A
ZP1-28	B	C	4A
ZP1-29	B	C	2C
ZP1-30	B	C	4A
ZP1-31	B	C	4A
ZP1-32	B	C	3B
ZP1-33	B	C	3B
ZP1-38	B	C	4A
ZP1-46	B	C	3B
ZP1-49	B	C	1A
ZP3-17	B	C	1E
ZP3-18	B	C	2D
ZP3-19	B	C	1E
ZP3-20	B	C	2D
ZP4-18	B	C	2B
ZP4-23	B	C	2B
ZP4-24	B	C	2B
ZP4-25	B	C	1C
ZP6-10	B	C	3D
ZP7601	B	C	1D
ZP7602	B	C	2B
ZPG1	A	D	2A
ZPG2	A	D	3A
ZPG3	A	D	2E
ZPG4	A	D	1D
ZPG5	A	D	3B
ZPG6	A	D	1B
ZPG7	A	D	1A
ZPG8	A	D	1A
ZPG9	A	D	1A

4.25 MONITOR CIRCUIT BOARD [GR-DVL450EG]

FOIL SIDE(B)



COMPONENT SIDE(A)



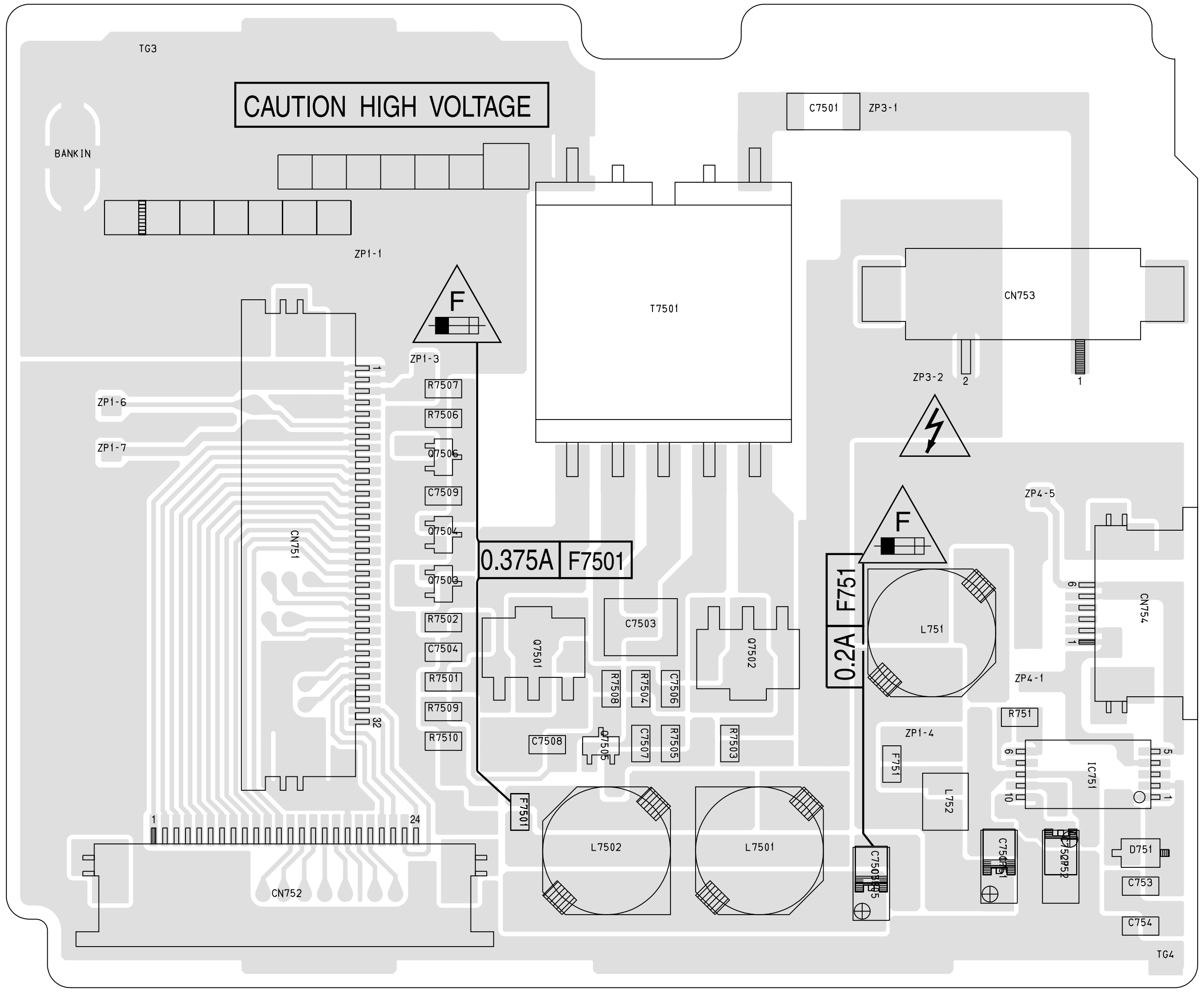
COMPONENT PARTS LOCATION GUIDE ＜MONITOR＞ [GR-DVL450EG]

REF.NO.	LOCATION		
CAPACITOR			
C1	A	C	1C
C10	A	C	3D
C11	A	C	4D
C7101	B	C	3D
C7102	B	C	3D
C7103	B	C	2D
C7601	B	C	2C
C7602	A	C	1C
C7603	B	C	2C
C7604	B	C	2D
C7605	B	C	2D
C7606	B	C	1D
C7607	A	C	1D
C7608	A	C	1D
C7609	B	C	1D
C7610	A	C	1D
C7611	A	C	1D
C7612	A	C	1D
C7613	B	C	1C
C7614	B	C	1D
C7615	A	C	1D
C7616	B	C	1C
C7617	B	C	1C
C7618	B	C	1C
C7619	B	C	1C
C7620	B	C	1C
C7621	B	C	2C
C7622	B	C	1C
C7623	A	C	2D
C7624	A	C	2D
C7625	A	C	2D
C7626	A	C	2D
C7627	A	C	2C
C7628	B	C	3B
C7629	B	C	3B
C7630	A	C	3B
C7631	A	C	3B
C7632	A	C	3B
C7633	A	C	3B
C7634	A	C	3B
C7635	A	C	3B
C7636	A	C	2B
C7637	A	C	3B
C7638	B	C	1D
C7639	B	C	1D
C7640	A	C	1B
C7641	A	C	1A
C7642	B	C	1E
C7643	B	C	2C
C7644	B	C	2C
C7645	B	C	3B
CONNECTOR			
CN761	A	C	4D
CN763	A	C	1E
CN764	A	C	3B
CN765	A	C	1C
CN766	B	C	4C
DIODE			
D1	A	C	1A
D10	A	C	3D
D7601	A	C	3B
IC			
IC7101	B	C	2D
IC7601	B	C	1D
IC7602	A	C	2C
IC7603	A	C	1B
IC7604	B	C	1D
IC7605	B	C	2C
COIL			
L10	A	C	4D
L7601	A	C	2D
L7602	B	C	1C
L7603	B	C	1C
L7604	A	C	3B
L7605	A	C	3B
L7606	A	C	3B
L7607	A	C	3B
TRANSISTOR			
Q10	A	C	3D
Q7101	B	C	2D
Q7601	B	C	3B
Q7602	B	C	3B
Q7603	B	C	3B
Q7604	B	C	3B
Q7605	B	C	3B
Q7606	B	C	3B
Q7607	B	C	1D
Q7608	B	C	1D
Q7609	A	C	2B
Q7610	A	C	2B
RESISTOR			
R1	A	C	3E
R2	A	C	3E
R3	B	C	1C
R4	B	C	1D
R5	B	C	1D
R6	B	C	1D
R10	A	C	4D
R11	A	C	4D
R12	A	C	4D
R13	A	C	3D
R14	A	C	4D
R15	A	C	3D
R16	A	C	3D
R17	A	C	3D
R18	A	C	4D
R19	A	C	3D
R20	A	C	3D
R21	A	C	3D
R22	A	C	3D
R23	A	C	4D
R24	A	C	3D
R25	A	C	3D
R26	A	C	3D
R27	A	C	3D
R28	A	C	3D
R7101	B	C	2D
R7102	B	C	2D
R7103	B	C	2D
R7104	B	C	2D
R7110	B	C	2E
R7111	B	C	1E
R7112	A	C	1D
R7113	B	C	1E
R7114	B	C	2E
R7115	B	C	1E
R7601	B	C	1D
R7602	B	C	1D
R7603	A	C	2C
R7604	A	C	2C
R7605	A	C	2C
R7606	A	C	2C
R7607	A	C	2C
R7608	A	C	2C
R7609	A	C	2C
R7610	A	C	2C
R7611	A	C	2C
R7612	B	C	3B
R7613	B	C	3B
R7614	B	C	3B
R7615	B	C	3B
R7616	B	C	3B
R7617	B	C	3B
R7618	B	C	3B
R7619	A	C	3B
R7621	B	C	3B
R7622	B	C	3B
R7623	B	C	3B
R7624	A	C	2B
R7625	A	C	2B
R7626	B	C	1D
R7627	B	C	1D
R7628	B	C	2D
R7629	B	C	1D
R7630	B	C	1E
R7631	B	C	3B
R7632	A	C	1B
R7633	A	C	1A
R7634	B	C	2C
R7635	B	C	2C
R7640	B	C	1D
R7641	B	C	1E
R7642	B	C	1E
R7643	A	C	1D
R7644	B	C	1E
R7645	B	C	1D
R7646	B	C	1D
OTHER			
BT1	A	C	3C
C11P	A	C	4D
C7103P	B	C	3D
C7623P	A	C	2D
C7629P	B	C	3B
C7639P	B	C	1D
SW1	B	C	3E
SW2	A	C	1C
SW3	A	C	1D
SW4	A	C	1E
SW5	A	C	1D
SW6	B	C	2E
SW7601	B	C	2A
TM1	A	C	4A
ZP1-2	B	C	4D
ZP1-3	B	C	4D
ZP1-4	B	C	3C
ZP1-5	B	C	4D
ZP1-6	B	C	4D
ZP1-7	B	C	4C
ZP1-8	B	C	4D
ZP3-3	B	C	2E
ZP4-9	B	C	3B
ZP6-1	B	C	4D
ZP6-2	B	C	4D
ZP6-3	B	C	4C
ZP6-4	B	C	4C
ZP6-5	B	C	4C
ZP6-6	B	C	4C
ZP6-7	B	C	4C
ZP6-8	B	C	4C
ZP6-9	B	C	4D
ZP1-11	B	C	4C
ZP1-12	B	C	2C
ZP1-13	B	C	2D
ZP1-14	B	C	4A
ZP1-17	B	C	1C
ZP1-18	B	C	3D
ZP1-19	B	C	3D
ZP1-20	B	C	3C
ZP1-21	B	C	3B
ZP1-22	B	C	2D
ZP1-23	B	C	2D
ZP1-24	B	C	2D
ZP1-25	B	C	2C
ZP1-26	B	C	2D
ZP1-27	B	C	4A
ZP1-28	B	C	4A
ZP1-29	B	C	2C
ZP1-30	B	C	4A
ZP1-31	B	C	4A
ZP1-32	B	C	3B
ZP1-33	B	C	3B
ZP1-38	B	C	4A
ZP1-46	B	C	3B
ZP1-49	B	C	1A
ZP3-17	B	C	1E
ZP3-18	B	C	2D
ZP3-19	B	C	2E
ZP3-20	B	C	2D
ZP4-18	B	C	3B
ZP4-23	B	C	2B
ZP4-24	B	C	2B
ZP4-25	B	C	2C
ZP6-10	B	C	3D
ZP7601	B	C	1D
ZP7602	B	C	2B
ZPG1	A	D	2A
ZPG2	A	D	3A
ZPG3	A	D	2E
ZPG4	A	D	1D
ZPG5	A	D	3B
ZPG6	A	D	1B
ZPG7	A	D	1A
ZPG8	A	D	1A
ZPG9	A	D	1A

4.26 LCD B CIRCUIT BOARD [GR-DVL150EG/EK]

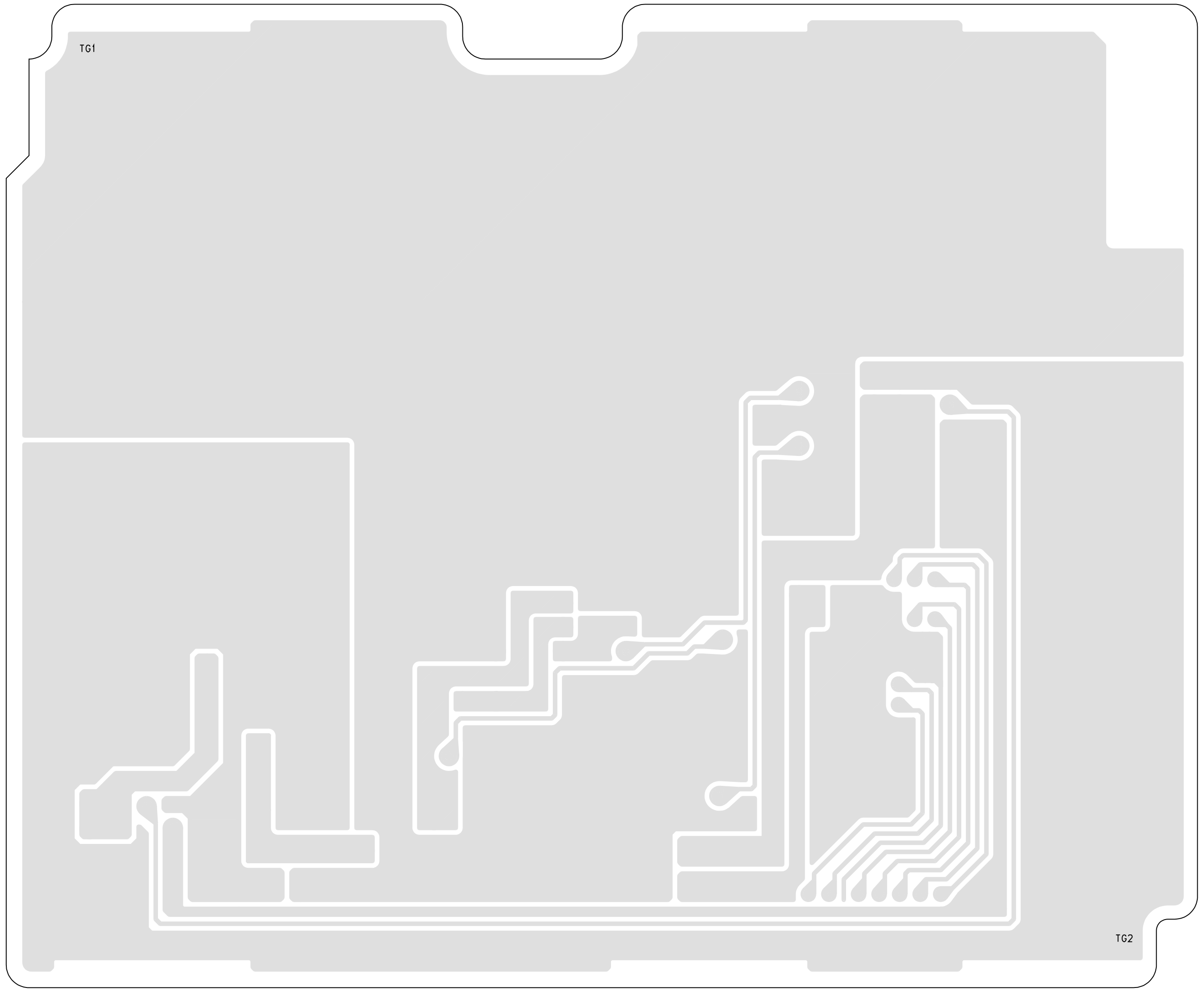
03 LCD BL PWB
YB10325

FOIL SIDE(B)


TG3
CAUTION HIGH VOLTAGE
BANK IN
C7501
ZP3-1
T7501
CN753
ZP1-1
F
ZP1-3
ZP3-2
2
1
ZP1-6
ZP1-7
R7507
R7506
Q7506
C7509
Q7504
Q7503
R7502
C7504
R7501
R7509
R7510
CN751
0.375A
F7501
F
F751
0.2A
L751
ZP4-5
CN754
ZP4-1
Q7501
C7503
Q7502
R7508
R7504
C7506
C7508
D7501
C7507
R7505
R7503
R751
ZP1-4
F751
L752
IC751
F7501
L7502
L7501
C7505
C7502
D7502
D751
C753
C754
CN752
TG4
1
24
32

COMPONENT SIDE(A)

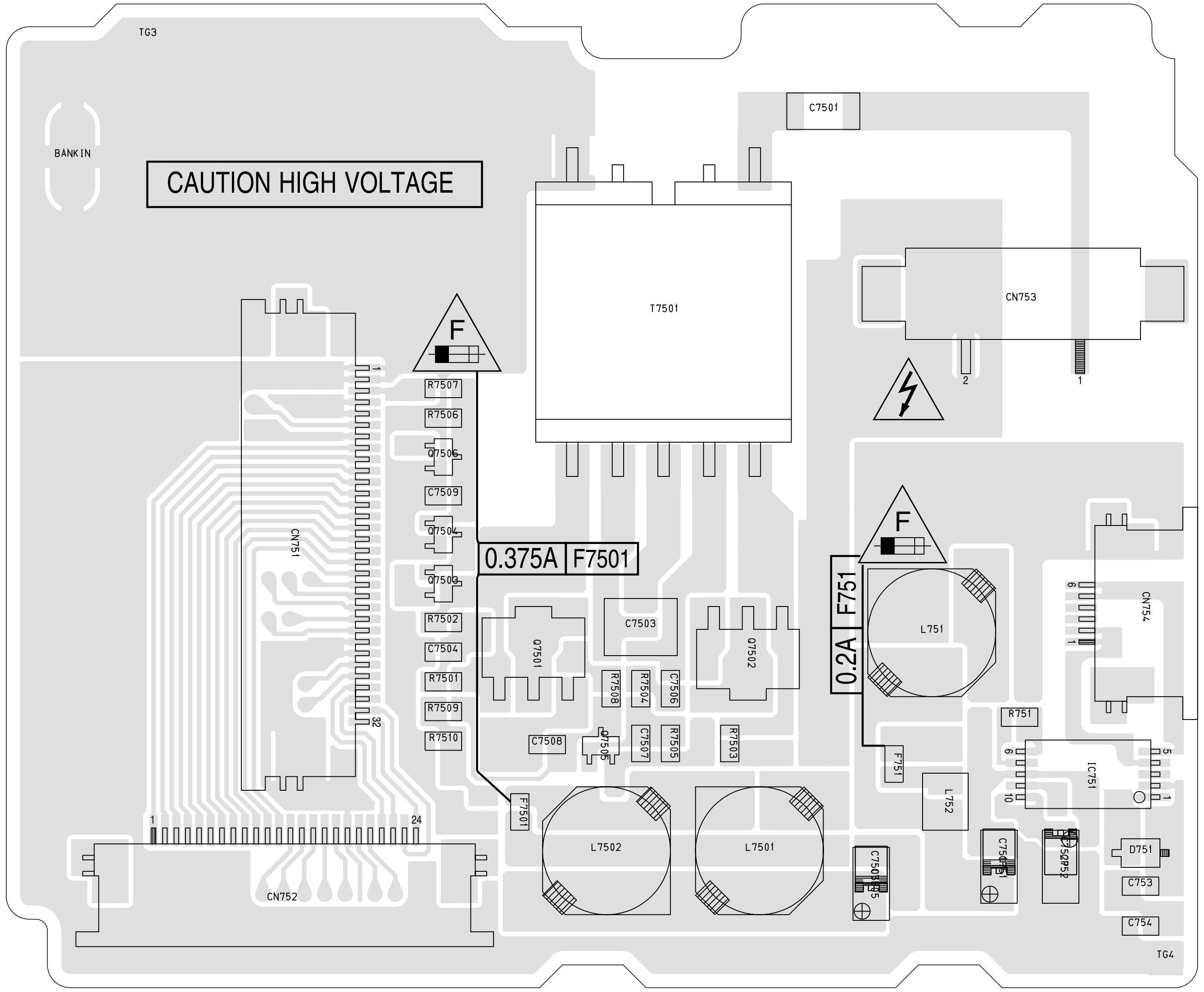
03 LCD BL PWB
YB10325



4.27 LCD BL CIRCUIT BOARD [GR-DVL450EG]

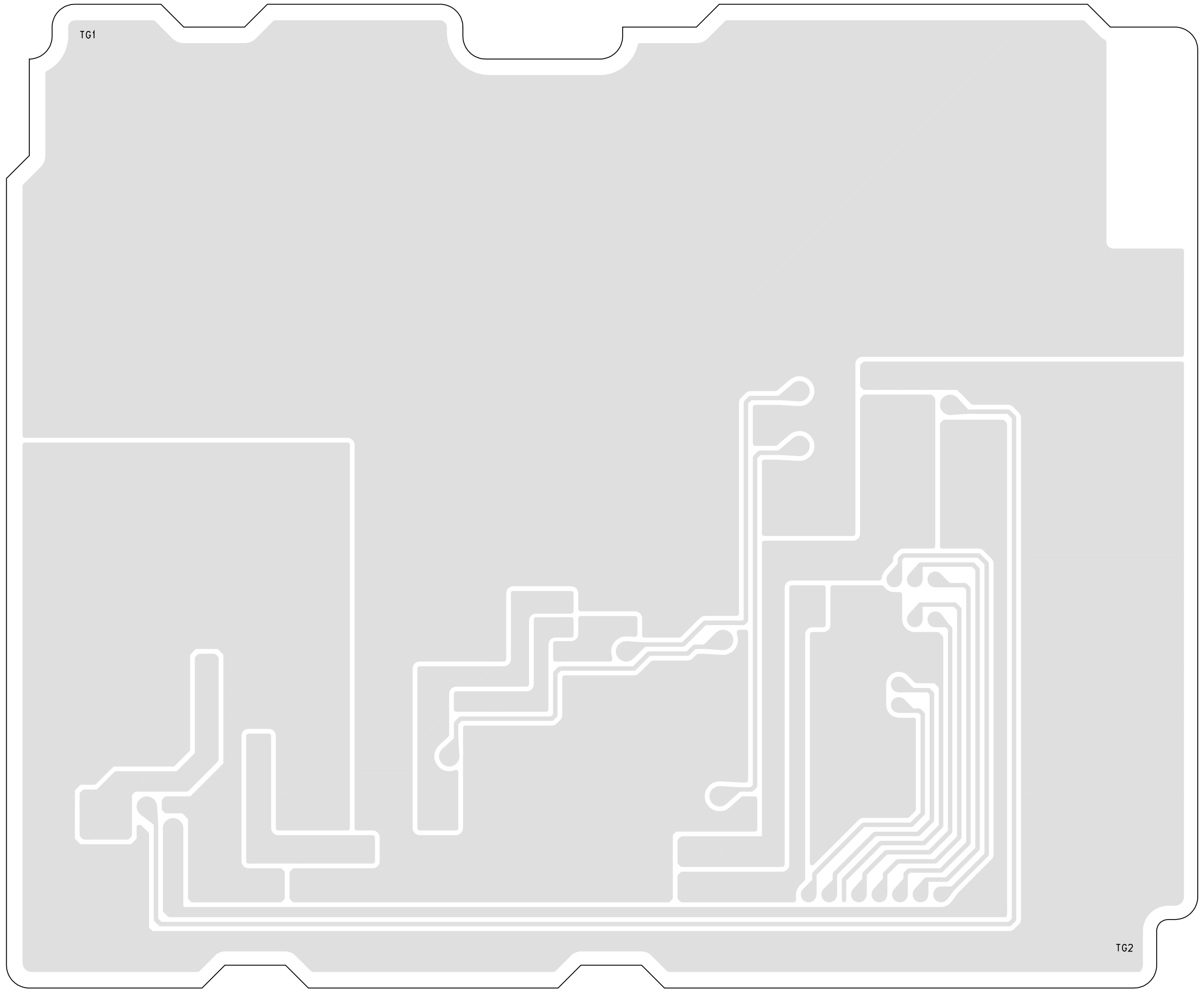
FOIL SIDE(B)

03 LCD BL PWB
YB10324-01-02


TG3
BANK IN
CAUTION HIGH VOLTAGE
C7501
T7501
CN753
2
1
F
CN751
1
32
R7507
R7506
Q7506
C7509
Q7504
Q7503
R7502
C7504
R7501
R7509
R7510
0.375A
F7501
Q7501
C7503
Q7502
R7508
R7504
C7506
C7508
Q7505
C7507
R7505
R7503
F7501
L7502
L7501
0.2A
F751
L751
F751
L752
R751
IC751
CN754
D751
C753
C754
CN752
1
24
TG4

COMPONENT SIDE(A)

03 LCD BL PWB
YB10324-01-02

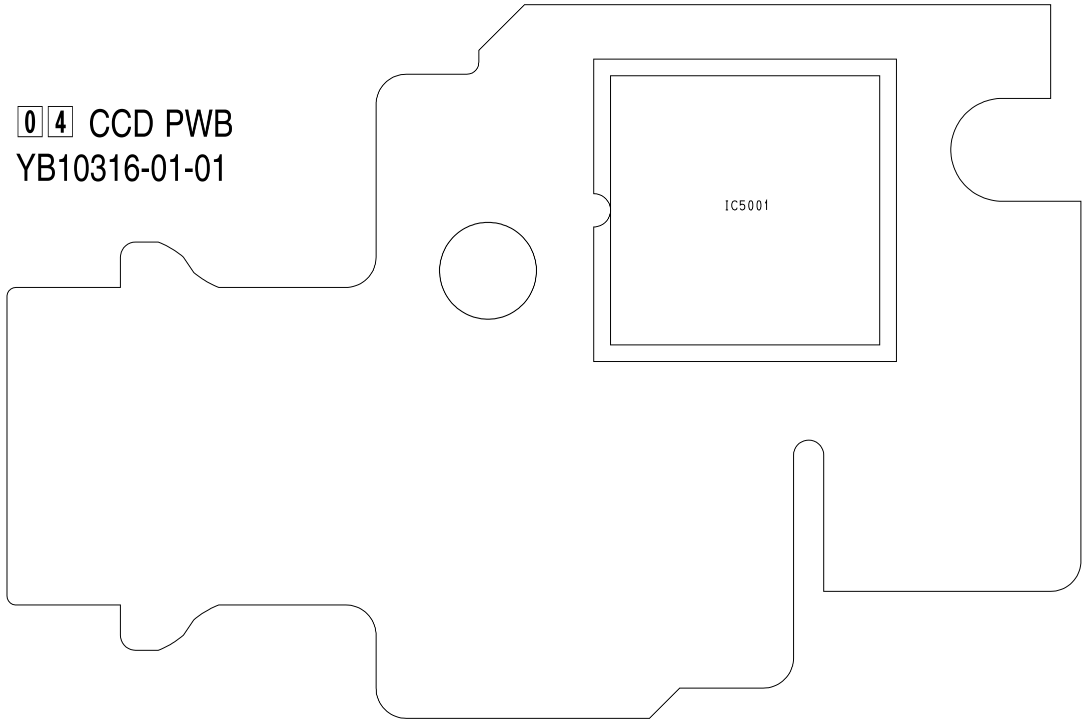


4.28 CCD AND JUNCTION CIRCUIT BOARDS

—CCD—

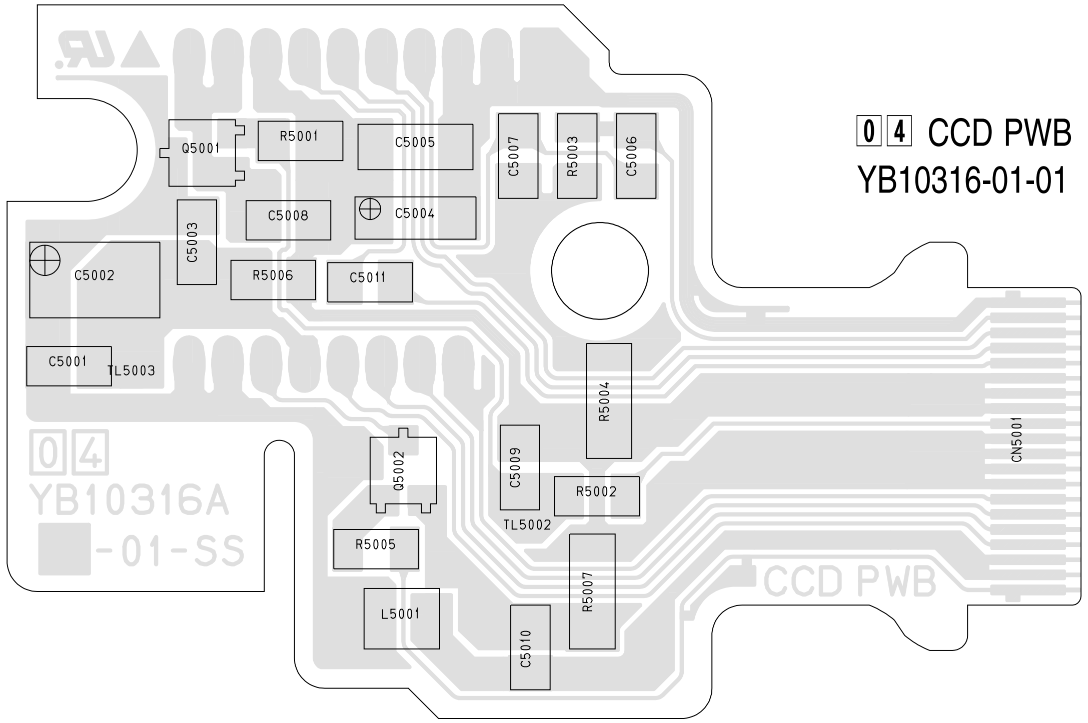
FOIL SIDE(B)

04 CCD PWB
YB10316-01-01



COMPONENT SIDE(A)

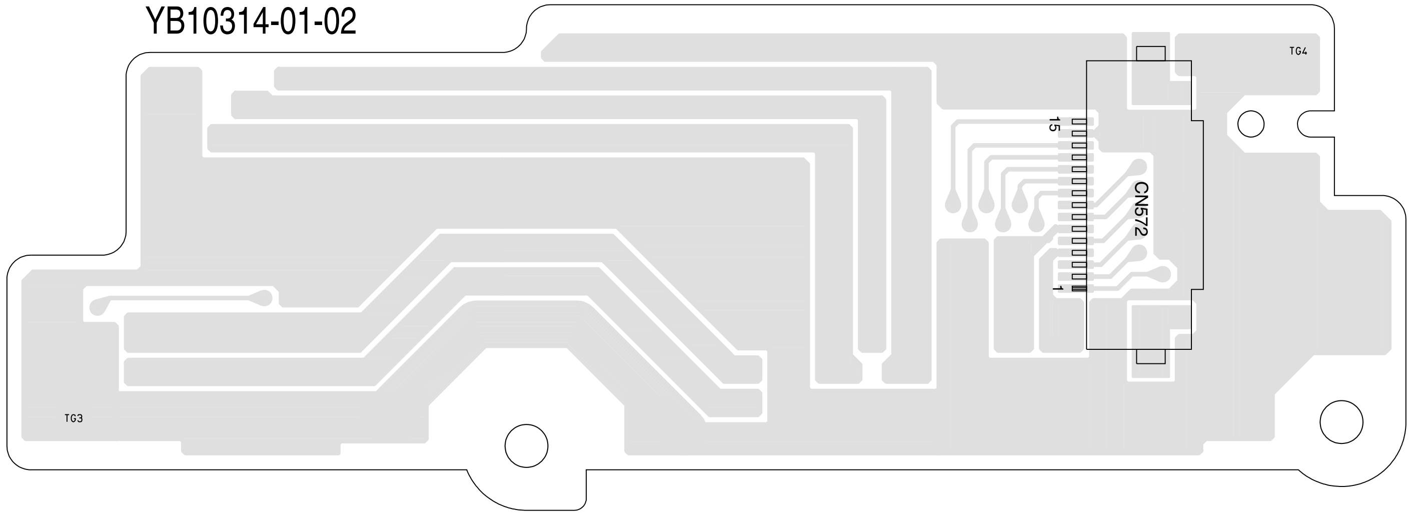
04 CCD PWB
YB10316-01-01


Q5001
R5001
C5005
C5007
R5003
C5006
C5008
C5004
C5003
C5002
R5006
C5011
C5001
TL5003
R5004
CN5001
Q5002
C5009
R5002
TL5002
R5005
R5007
L5001
C5010
04
YB10316A
-01-SS
CCD PWB

—JUNCTION—

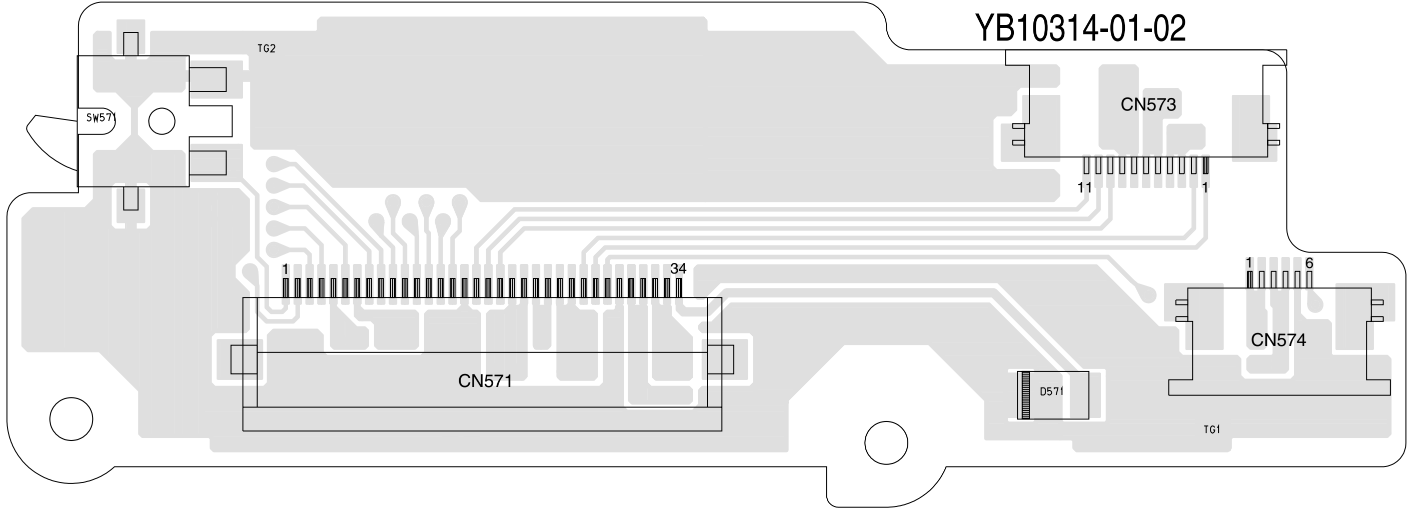
05 JUNCTION PWB
YB10314-01-02

FOIL SIDE(B)


TG4
15
CN572
1
TG3

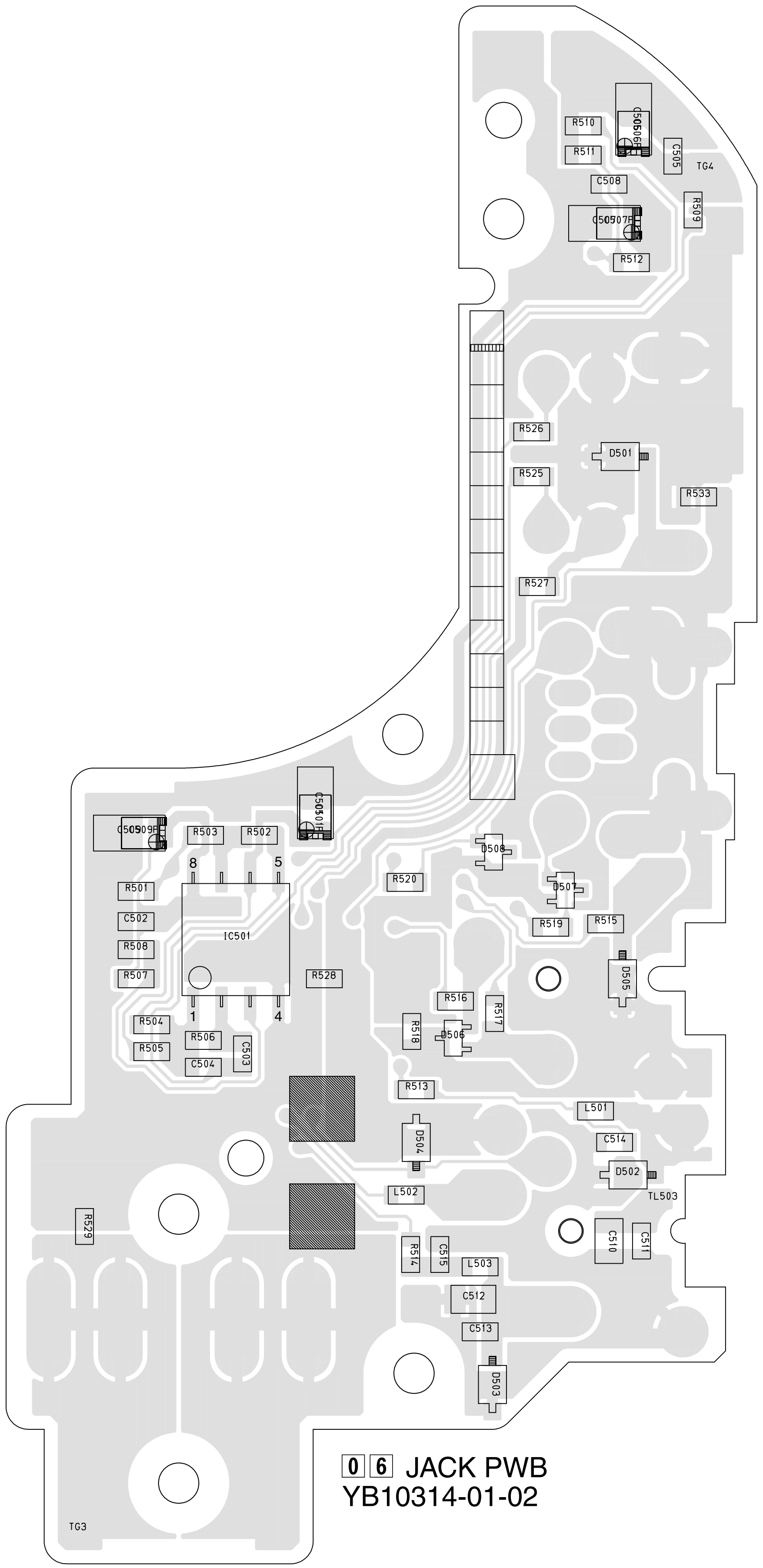
COMPONENT SIDE(A)

05 JUNCTION PWB
YB10314-01-02

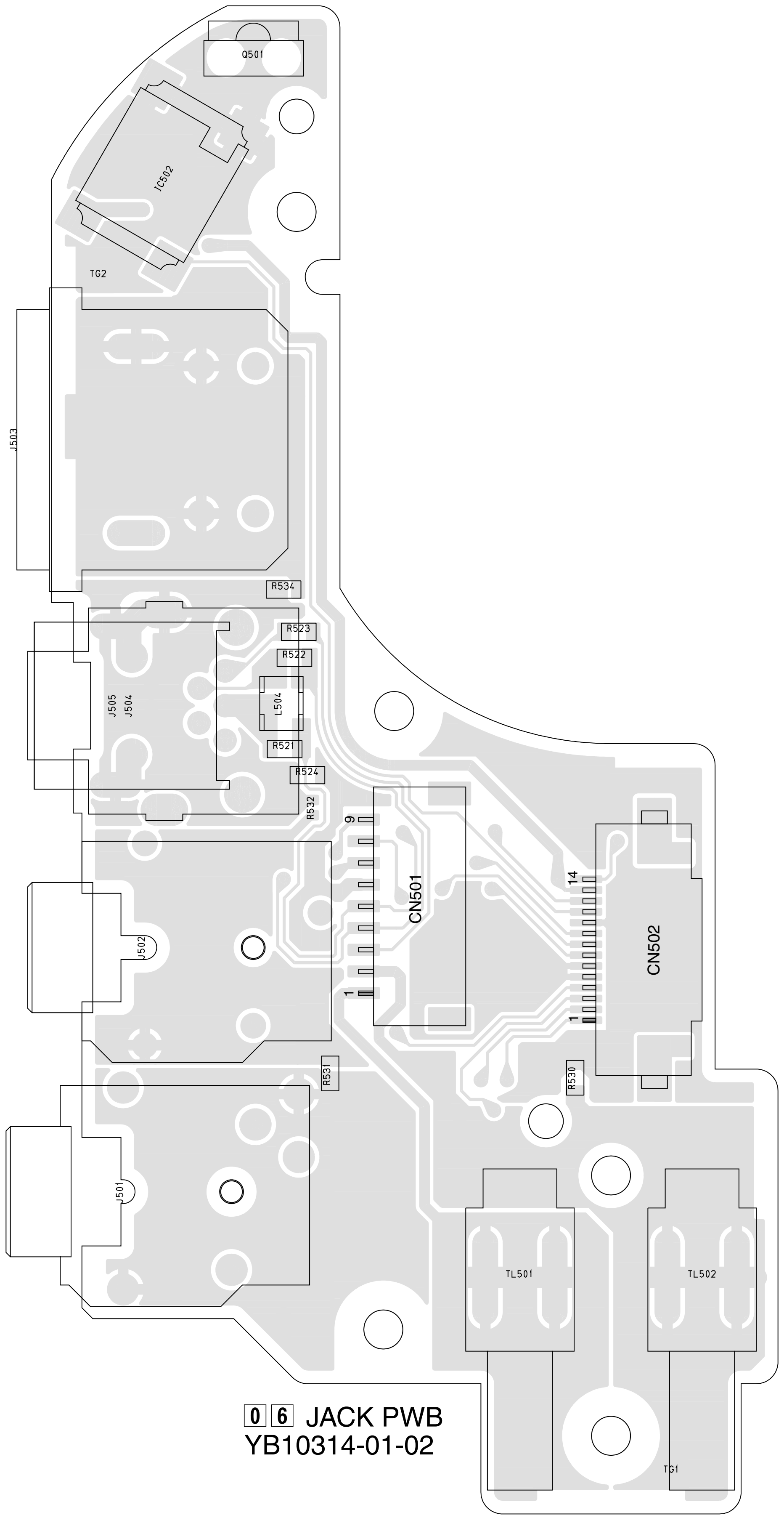

TG2
SW571
CN573
11
1
1
34
1
6
CN574
CN571
D571
TG1

4.29 JACK CIRCUIT BOARD

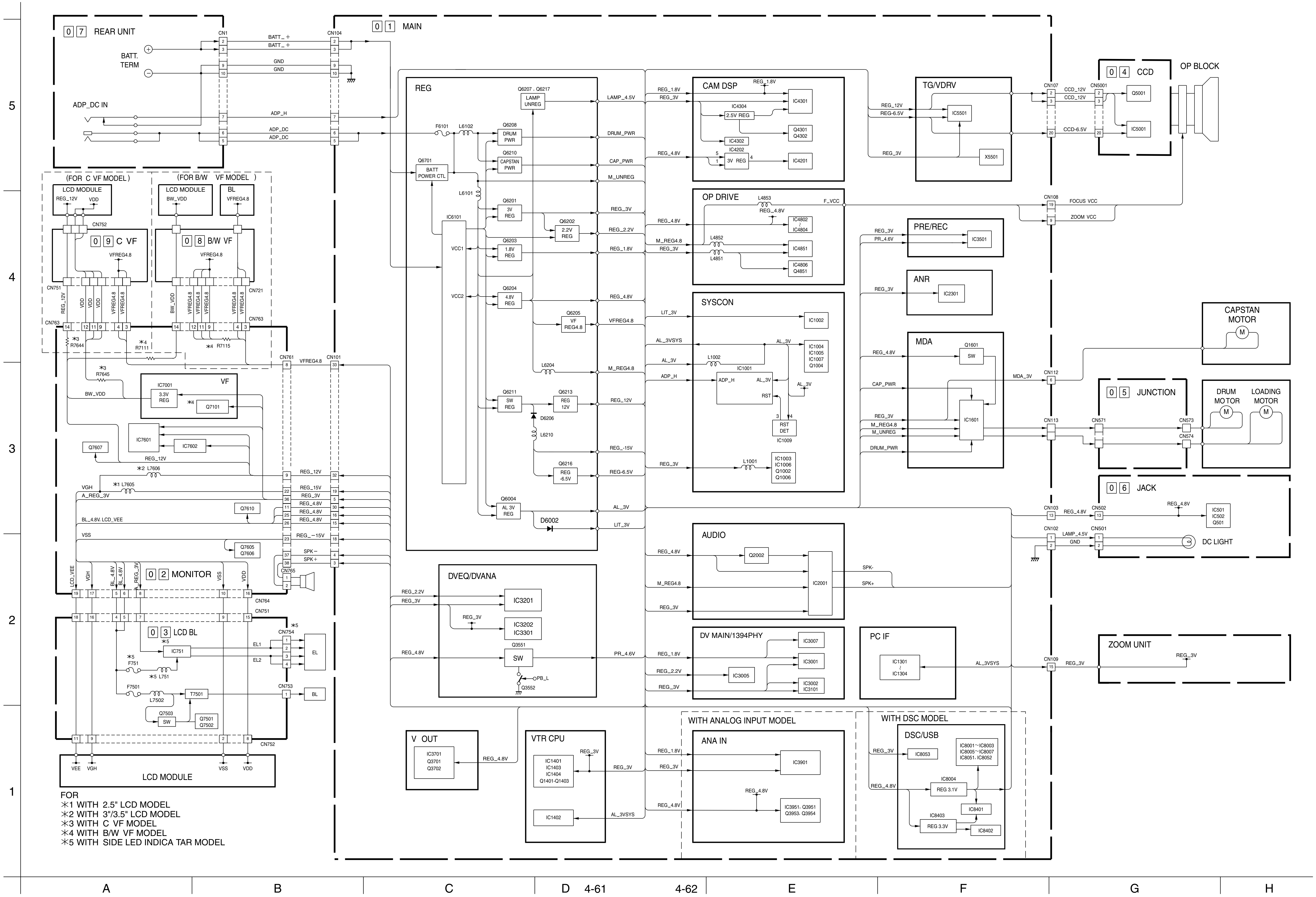
FOIL SIDE(B)


R510
R511
C506
C505
TG4
C508
C507
R509
R512
R526
R525
D501
R533
R527
C509
C501
R503
R502
8
5
R501
C502
R508
R507
IC501
1
4
R528
R520
D508
D507
R519
R515
D505
R504
R505
R506
C504
C503
R516
R517
R518
D506
R513
L501
C514
D504
D502
TL503
L502
R529
C510
C511
R514
C515
L503
C512
C513
D503
TG3
06 JACK PWB
YB10314-01-02

COMPONENT SIDE(A)


Q501
IC502
TG2
J503
R534
R523
R522
J505
J504
L504
R521
R524
R532
9
1
CN501
14
1
CN502
J502
R531
R530
J501
TL501
TL502
TG1
06 JACK PWB
YB10314-01-02

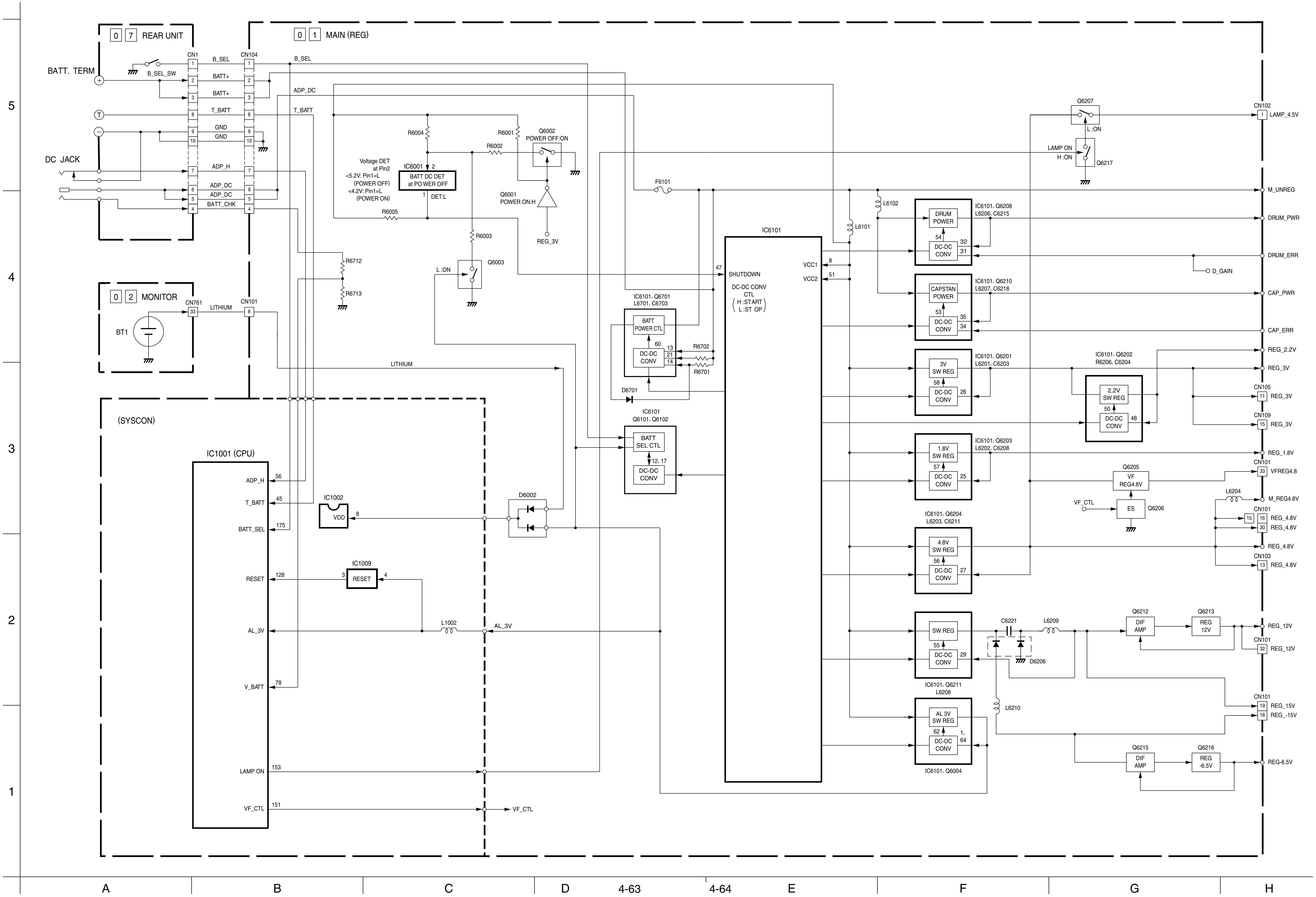
4.30 POWER SYSTEM BLOCK DIAGRAM



07 REAR UNIT
BATT. TERM
ADP_DC IN
BATT_+
GND
ADP_H
ADP_DC
CN1
CN104
01 MAIN
REG
Q6207, Q6217 LAMP UNREG
F6101
L6102
Q6208 DRUM PWR
Q6210 CAPSTAN PWR
Q6701 BATT POWER CTL
L6101
IC6101
VCC1
VCC2
Q6201 3V REG
Q6202 2.2V REG
Q6203 1.8V REG
Q6204 4.8V REG
Q6205 VF REG4.8
L6204
Q6211 SW REG
Q6213 REG 12V
D6206
L6210
Q6216 REG -6.5V
Q6004 AL 3V REG
D6002
LAMP_4.5V
DRUM_PWR
CAP_PWR
M_UNREG
REG_3V
REG_2.2V
REG_1.8V
REG_4.8V
VFREG4.8
AL_3VSYS
AL_3V
ADP_H
M_REG4.8
REG_12V
REG_-15V
REG-6.5V
LIT_3V
CAM DSP
IC4301
IC4304 2.5V REG
Q4301 Q4302
IC4302
IC4202 3V REG
IC4201
OP DRIVE
L4853
F_VCC
IC4802 ~ IC4804
L4852
L4851
IC4851
IC4806 Q4851
SYSCON
IC1002
IC1004 IC1005 IC1007 Q1004
L1002
IC1001
RST
RST DET IC1009
L1001
IC1003 IC1006 Q1002 Q1006
TG/VDRV
IC5501
X5501
REG_12V
REG-6.5V
PRE/REC
IC3501
PR_4.6V
ANR
IC2301
MDA
Q1601 SW
IC1601
MDA_3V
CN107
CN5001
CCD_12V
CCD-6.5V
04 CCD
Q5001
IC5001
OP BLOCK
CN108
FOCUS VCC
ZOOM VCC
CAPSTAN MOTOR
CN112
CN113
CN571
CN573
CN574
05 JUNCTION
DRUM MOTOR
LOADING MOTOR
06 JACK
CN103
CN502
IC501 IC502 Q501
CN102
CN501
LAMP_4.5V
GND
DC LIGHT
ZOOM UNIT
CN109
AUDIO
Q2002
IC2001
SPK-
SPK+
DVEQ/DVANA
IC3201
IC3202 IC3301
Q3551 SW
PB_L
Q3552
DV MAIN/1394PHY
IC3007
IC3001
IC3005
IC3002 IC3101
PC IF
IC1301 ~ IC1304
V OUT
IC3701 Q3701 Q3702
VTR CPU
IC1401 IC1403 IC1404 Q1401-Q1403
IC1402
WITH ANALOG INPUT MODEL
ANA IN
IC3901
IC3951, Q3951 Q3953, Q3954
WITH DSC MODEL
DSC/USB
IC8053
IC8001~IC8003 IC8005~IC8007 IC8051, IC8052
IC8004 REG 3.1V
IC8401
IC8403 REG 3.3V
IC8402
(FOR C VF MODEL)
(FOR B/W VF MODEL)
LCD MODULE
BL
09 C VF
08 B/W VF
CN752
CN751
CN721
CN763
R7644
R7111
R7115
R7645
VF
IC7001 3.3V REG
Q7101
BW_VDD
IC7601
IC7602
Q7607
L7606
L7605
VGH
A_REG_3V
BL_4.8V, LCD_VEE
VSS
Q7610
Q7605 Q7606
CN761
CN101
CN765
SPK-
SPK+
02 MONITOR
CN764
03 LCD BL
CN754
EL1
EL2
EL
IC751
F751
L751
F7501
L7502
T7501
CN753
Q7503 SW
Q7501 Q7502
VEE
VDD
LCD MODULE
A
B
C
D
E
F
G
H
1
2
3
4
5

FOR
⁎1 WITH 2.5" LCD MODEL
⁎2 WITH 3"/3.5" LCD MODEL
⁎3 WITH C VF MODEL
⁎4 WITH B/W VF MODEL
⁎5 WITH SIDE LED INDICA TAR MODEL

4.31 REGULATOR SYSTEM BLOCK DIAGRAM


0 7 REAR UNIT
0 1 MAIN (REG)
0 2 MONITOR
(SYSCON)
BATT. TERM
DC JACK
B_SEL_SW
CN1
CN104
CN761
CN101
B_SEL
BATT+
T_BATT
GND
ADP_H
ADP_DC
BATT_CHK
ADP_DC
LITHIUM
BT1
R6004
R6001
R6002
R6003
R6005
Q6002 POWER OFF:ON
Voltage DET at Pin2 <5.2V: Pin1=L (POWER OFF) <4.2V: Pin1=L (POWER ON)
IC6001
BATT DC DET at POWER OFF
DET:L
Q6001 POWER ON:H
REG_3V
L :ON
Q6003
R6712
R6713
F6101
L6101
L6102
IC6101
SHUTDOWN
DC-DC CONV CTL (H :START L :STOP)
VCC1
VCC2
IC6101, Q6701 L6701, C6703
BATT POWER CTL
DC-DC CONV
R6702
R6701
D6701
IC6101 Q6101, Q6102
BATT SEL CTL
DC-DC CONV
IC6101, Q6208 L6206, C6215
DRUM POWER
IC6101, Q6210 L6207, C6218
CAPSTAN POWER
IC6101, Q6201 L6201, C6203
3V SW REG
IC6101, Q6202 R6206, C6204
2.2V SW REG
IC6101, Q6203 L6202, C6208
1.8V SW REG
Q6205
VF REG4.8V
VF_CTL
ES
Q6206
L6204
IC6101, Q6204 L6203, C6211
4.8V SW REG
SW REG
IC6101, Q6211 L6208
C6221
L6209
D6206
L6210
Q6212 DIF AMP
Q6213 REG 12V
AL 3V SW REG
IC6101, Q6004
Q6215 DIF AMP
Q6216 REG -6.5V
Q6207
L :ON
LAMP ON H :ON
Q6217
CN102
LAMP_4.5V
M_UNREG
DRUM_PWR
DRUM_ERR
D_GAIN
CAP_PWR
CAP_ERR
REG_2.2V
REG_3V
CN105
CN109
REG_1.8V
VFREG4.8
M_REG4.8V
REG_4.8V
CN103
REG_12V
REG_15V
REG_-15V
REG-6.5V
IC1001 (CPU)
ADP_H
T_BATT
BATT_SEL
RESET
AL_3V
V_BATT
LAMP ON
VF_CTL
IC1002
VDD
IC1009
RESET
L1002
AL_3V
D6002
VF_CTL
A
B
C
D
E
F
G
H
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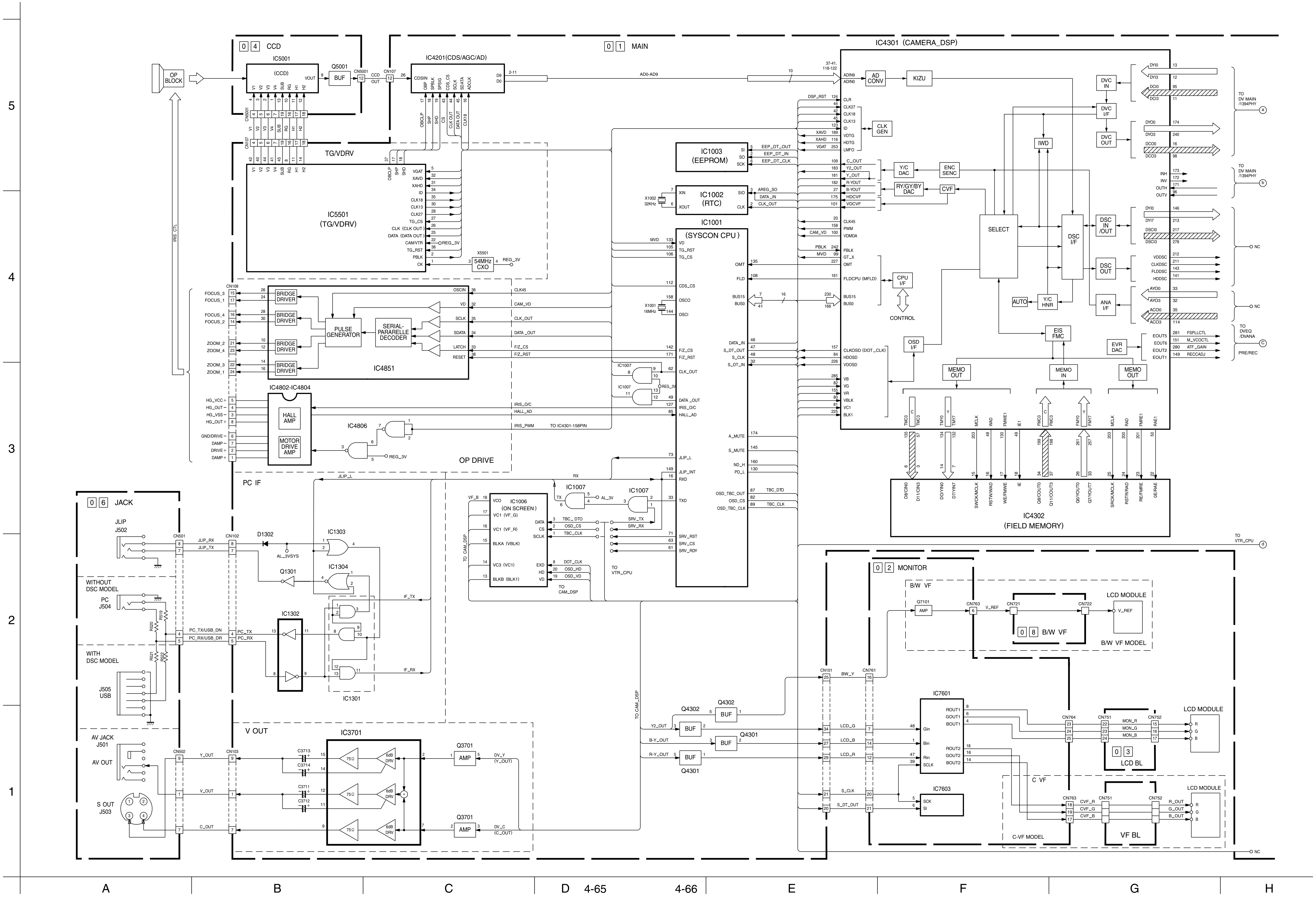
4.32 VIDEO SYSTEM BLOCK DIAGRAM


04 CCD
01 MAIN
OP BLOCK
IC5001 (CCD)
Q5001 BUF
CN5001
CCD OUT
CN107
IC4201(CDS/AGC/AD)
AD0-AD9
IC4301 (CAMERA_DSP)
AD CONV
KIZU
CLK GEN
DVC IN
DVC I/F
DVC OUT
IWD
Y/C DAC
ENC SENC
RY/GY/BY DAC
CVF
SELECT
DSC I/F
DSC IN /OUT
DSC OUT
ANA I/F
Y/C HNR
AUTO
EIS FMC
EVR DAC
OSD I/F
CPU I/F
CONTROL
MEMO OUT
MEMO IN
MEMO OUT
TO DV MAIN /1394PHY
TO DVEQ /DVANA
PRE/REC
NC
TO VTR_CPU
IC4302 (FIELD MEMORY)
IC1003 (EEPROM)
IC1002 (RTC)
X1002 32KHz
IC1001 (SYSCON CPU)
X1001 16MHz
TG/VDRV
IC5501 (TG/VDRV)
X5501 54MHz CXO
REG_3V
IRIS_CTL
CN108
IC4851
BRIDGE DRIVER
PULSE GENERATOR
SERIAL-PARARELLE DECODER
FOCUS_3
FOCUS_1
FOCUS_4
FOCUS_2
ZOOM_2
ZOOM_4
ZOOM_3
ZOOM_1
IC4802-IC4804
HALL AMP
MOTOR DRIVE AMP
HG_VCC+
HG_OUT−
HG_VSS−
HG_OUT+
GND/DRIVE−
DAMP−
DRIVE+
DAMP+
IC4806
TO IC4301-158PIN
OP DRIVE
PC IF
06 JACK
JLIP J502
WITHOUT DSC MODEL
PC J504
WITH DSC MODEL
J505 USB
AV JACK J501
AV OUT
S OUT J503
CN501
CN102
D1302
AL_3VSYS
IC1303
Q1301
IC1304
IC1302
IC1301
IF_TX
IF_RX
PC_TX/USB_DN
PC_RX/USB_DR
IC1006 (ON SCREEN)
IC1007
TO CAM_DSP
TO VTR_CPU
V OUT
CN502
CN103
Y_OUT
V_OUT
C_OUT
IC3701
C3713
C3714
C3711
C3712
75Ω
6dB DRV
Q3701 AMP
DV_Y (Y_OUT)
DV_C (C_OUT)
Q4302 BUF
Q4301 BUF
Y2_OUT
B-Y_OUT
R-Y_OUT
CN101
CN761
BW_Y
LCD_G
LCD_B
LCD_R
S_CLK
S_DT_OUT
02 MONITOR
B/W VF
Q7101 AMP
CN763
V_REF
CN721
CN722
08 B/W VF
LCD MODULE
B/W VF MODEL
IC7601
IC7603
CN764
CN751
CN752
MON_R
MON_G
MON_B
03 LCD BL
C VF
CVF_R
CVF_G
CVF_B
R_OUT
G_OUT
B_OUT
VF BL
C-VF MODEL
A
B
C
D
E
F
G
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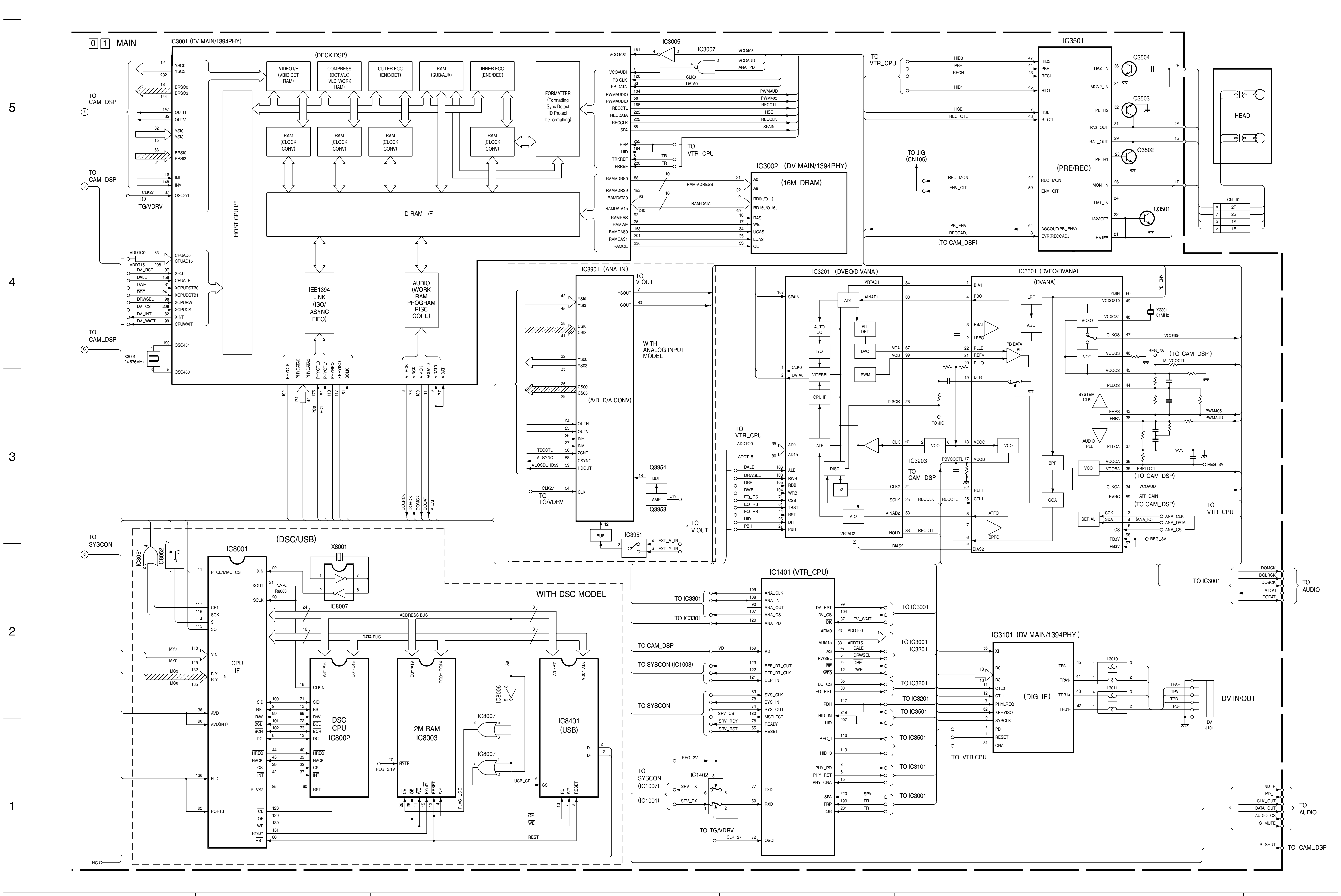

0 1 MAIN
IC3001 (DV MAIN/1394PHY)
(DECK DSP)
VIDEO I/F (VBID DET RAM)
COMPRESS (DCT.VLC VLD WORK RAM)
OUTER ECC (ENC/DET)
RAM (SUB/AUX)
INNER ECC (ENC/DEC)
FORMATTER (Formatting Sync Detect ID Protect De-formatting)
RAM (CLOCK CONV)
D-RAM I/F
HOST CPU I/F
IEE1394 LINK (ISO/ASYNC FIFO)
AUDIO (WORK RAM PROGRAM RISC CORE)
IC3005
IC3007
IC3002 (DV MAIN/1394PHY)
(16M_DRAM)
TO CAM_DSP
TO TG/VDRV
TO VTR_CPU
IC3501
(PRE/REC)
Q3504
Q3503
Q3502
Q3501
HEAD
CN110
TO JIG (CN105)
(TO CAM_DSP)
IC3901 (ANA IN)
TO V OUT
WITH ANALOG INPUT MODEL
(A/D. D/A CONV)
Q3954
Q3953
IC3951
IC3201 (DVEQ/D VANA)
IC3301 (DVEQ/DVANA)
(DVANA)
IC3203
X3301 81MHz
X3001 24.576MHz
TO SYSCON
(DSC/USB)
IC8001
CPU IF
X8001
IC8007
IC8051
IC8052
WITH DSC MODEL
ADDRESS BUS
DATA BUS
DSC CPU IC8002
2M RAM IC8003
IC8006
IC8401 (USB)
IC1401 (VTR_CPU)
IC1402
TO IC3301
TO IC3001
TO IC3201
TO IC3501
TO IC3101
TO SYSCON (IC1003)
TO SYSCON (IC1007) (IC1001)
TO TG/VDRV
IC3101 (DV MAIN/1394PHY)
(DIG IF)
L3010
L3011
DV IN/OUT
DV J101
TO VTR CPU
TO AUDIO
TO CAM_DSP
NC
1
2
3
4
5
A
B
C
D
E
F
G
H

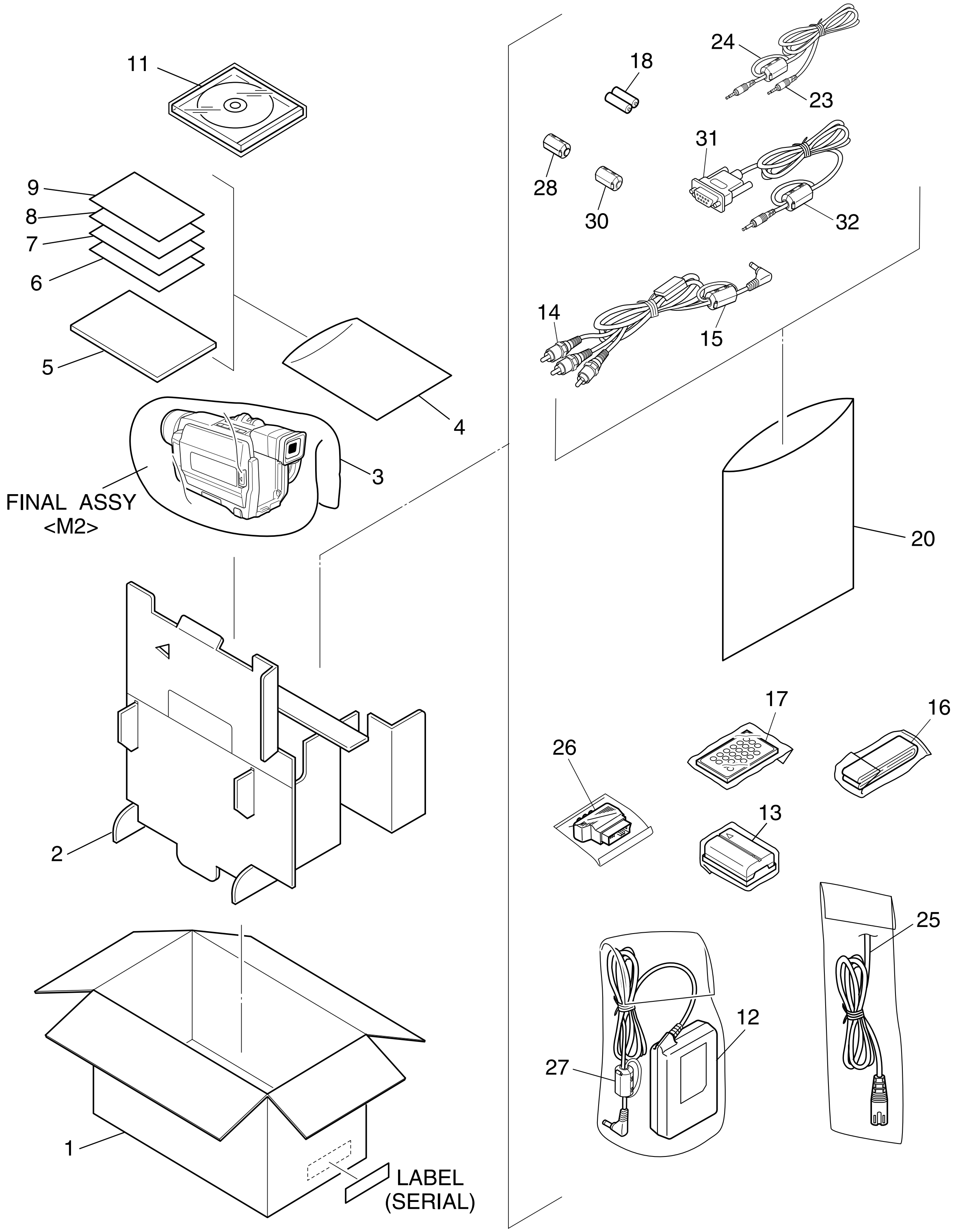
SECTION 5
PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

5.1 PACKING AND ACCESSORY ASSEMBLY <M1>

The instruction manual to be provided with this product will differ according to the destination.



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PACKING AND ACCESSORY ASSEMBLY <M1>

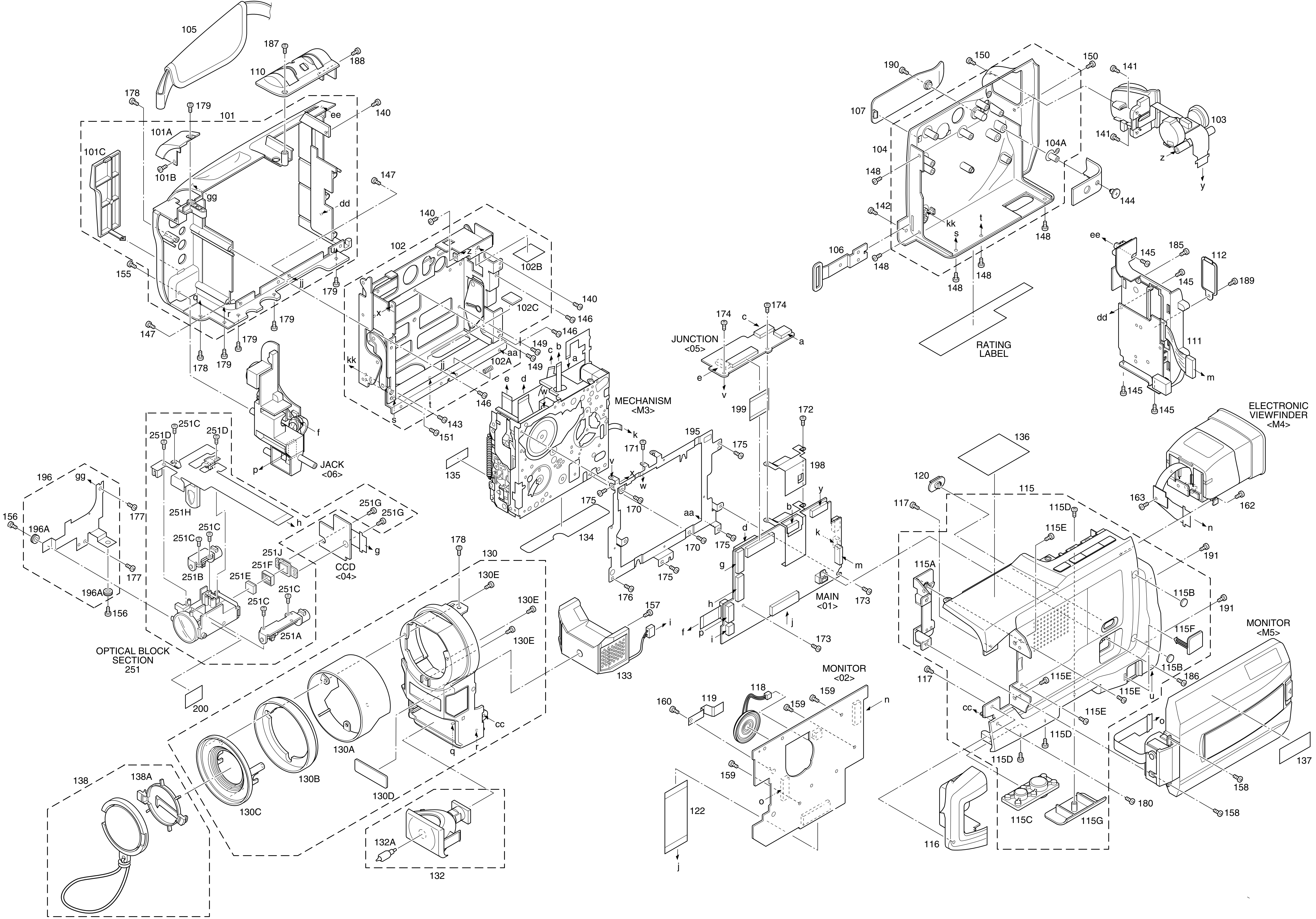
# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	1	LY32095-002A	PACKING CASE,C
		LY32095-003A	PACKING CASE,A,B
	2	LY32096-001A	CUSHION
	3	LY30023-008A	POLY BAG
	4	QPA02003006	POLY BAG,A,C
		YQM30061-3	POLY BAG,B
⚠	5	LYT0728-001A	INST.BOOK(EN),B
⚠		LYT0727-002B	INST.BOOK(GE),A,C
⚠		LYT0727-003B	INST.BOOK(FR),A,C
⚠		LYT0727-004A	INST.BOOK(DU),A,C
⚠		LYT0727-005B	INST.BOOK(SP),A,C
⚠		LYT0727-006A	INST.BOOK(IT),A,C
⚠		LYT0727-007A	INST.BOOK(DA),A,C
⚠		LYT0727-008A	INST.BOOK(FI),A,C
⚠		LYT0727-009A	INST.BOOK(SW),A,C
⚠		LYT0727-010A	INST.BOOK(NO),A,C
⚠		LYT0727-011A	INST.BOOK(RU),A,C
⚠		LYT0727-012A	INST.BOOK(CZ),A,C
⚠		LYT0727-013A	INST.BOOK(PO),A,C
⚠		LYT0727-014A	INST.BOOK(HU),A,C
⚠	6	LYT0737-001A	INST.BOOK(SOFT.5LANG),C
⚠		LYT0737-002A	INST.BOOK(SOFT.5LANG),C
⚠		LYT0737-003A	INST.BOOK(SOFT.RU),C
	7	LYT0378-003A	SHEET(AGREMENT),C
	8	LYT0194-001B	Q.CARD(JUK),B
	9	BT-54008-2	GUARANTY CARD,B
		BT-54013-2	WARRANTY CARD,A,C
	11	LY32210-002B	CD ROM,C
⚠	12	LY20688-013A	AC ADAPTER,AP-V10EG
⚠	13	LY31587-001A	BATTERY PACK,BN-V408U
	14	QAM0212-001	CABLE ASSY,AUDIO/VIDEO CABLE
	15	QQR0918-002	CORE FILTER
	16	LY20186-001A	SHOULDER STRAP
	17	LY20750-001A	REMOTE CONTROL UNIT,RM-V717U
	18	—	BATTERY,AAA(R03),X2
	20	QPA01703005	POLY BAG
	23	PEAC0428-150	CABLE ASSY,A,B
		QAM0214-001	RM CABLE,C
	24	QQR0491-002	CORE FILTER
⚠	25	QMPL120-190-JR	POWER CORD,A,C
⚠		QMPP110-190-JR	POWER CORD,B
	26	QAM0302-001	ADAPTOR PLUG
	27	QQR0490-002	CORE FILTER
	28	QQR0918-002	CORE FILTER,A,B
	30	QQR0491-002	CORE FILTER
	31	QAM0084-001	PC CABLE,C
	32	QQR0491-002	CORE FILTER,C

- **INSTRUCTIONS**

EN .... ENGLISH
GE ...... GERMAN
FR .... FRENCH
DU ...... DUTCH
SP .... SPANISH
IT .... ITALIAN
DA .... DANISH
FI .... FINNISH
SW ...... SWEDISH
NO ...... NORWEGIAN
RU ...... RUSSIAN
CZ .... CZECH
PO ...... POLISH
HU ...... HUNGARIAN

MODEL	MARK
GR-DVL150EG	A
GR-DVL150EK	B
GR-DVL450EG	C

5.2 FINAL ASSEMBLY <M2>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101C
101B
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dd
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179
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140
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251D
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251B
251E
251F
251J
251C
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251A
251G
251G
g
CCD
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OPTICAL BLOCK
SECTION
251
200
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130
130E
130E
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130B
130C
130D
cc
q
r
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138A
132A
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i
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104A
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144
142
kk
s
t
148
106
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148
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RATING
LABEL
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ELECTRONIC
VIEWFINDER
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115E
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115E
115B
186
u
115E
cc
115D
115D
o
116
115C
115G
180
158
158
137

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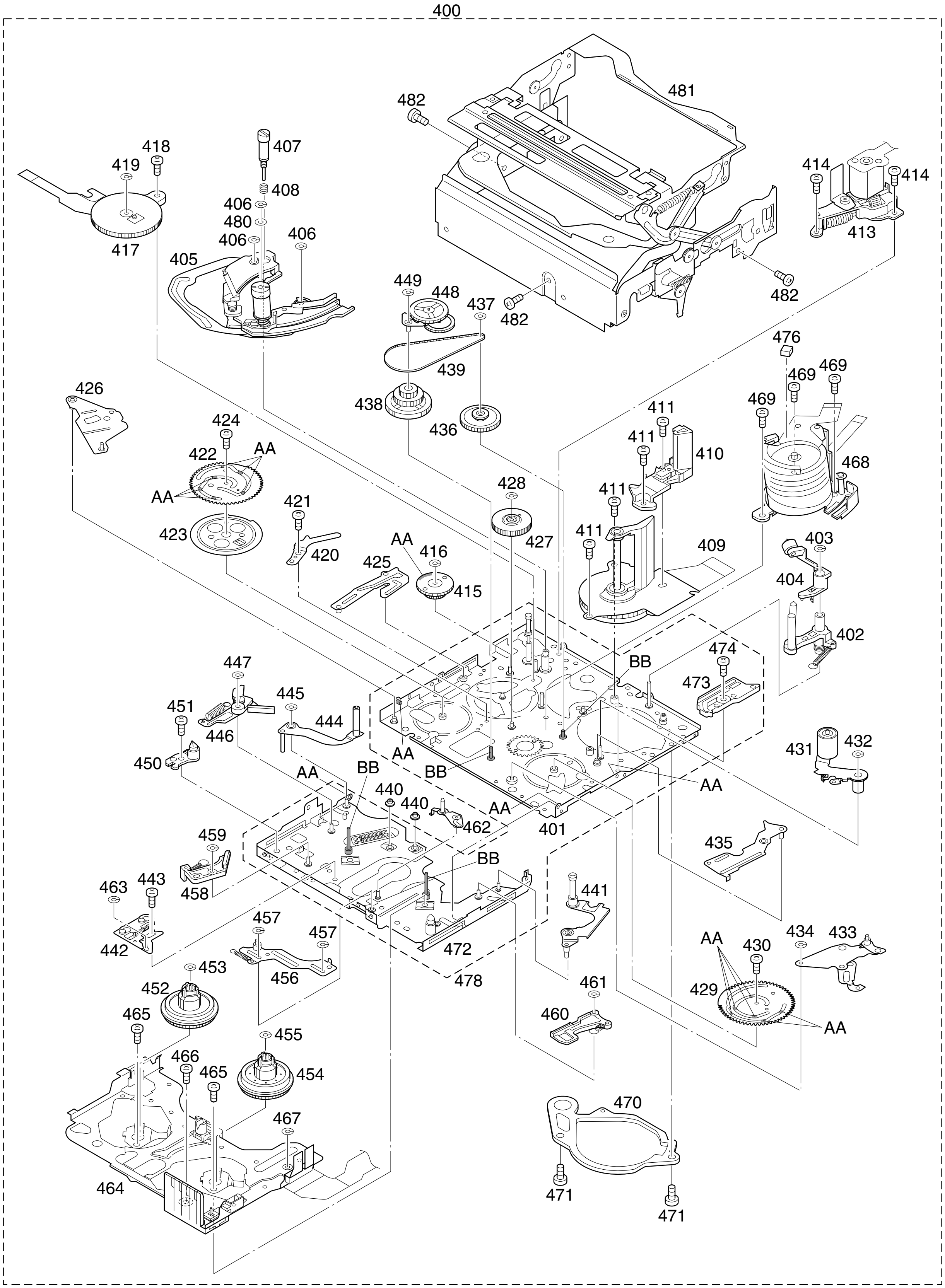
FINAL ASSEMBLY <M2>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	101	LY20706-001C	LOWER CASE ASSY
	101A	LY32098-001A	WINDOW(IR)
	101B	LY30018-063A	SPECIAL SCREW
	101C	LY32099-001C	COVER(JACK)
	102	LY20697-001B	ARM ASSY
	102A	LY30001-023A	TENSION SPRING
	102B	LY30029-0C7A	SPACER(A)
	102C	LY30029-0E9A	SPACER(A)
	103	LY20693-001A	ZOOM UNIT
	104	LY20704-001A	CASSETTE COVER ASSY
	104A	LY40592-001A	CAP(GRIP BELT)
	105	LY20575-004B	GRIP BELT
	106	LY42891-001A	HOOK(GRIP)
	107	LY32092-013A	COVER(AJUST)
	110	LY32093-001A	COVER(ZOOM)ASSY
	111	LY20725-001A	REAR UNIT
	112	LY41691-001A	COVER(JIG)
	115	LY20707-003C	UPPER CASE(2.5)ASSY,A,B
		LY20717-003C	UPPER CASE3/3.5ASSY,C
	115A	LY32101-001A	BRACKET
	115B	LY40664-001A	SPACER,X2
	115C	LY31019-001A	BASE
	115D	LY30018-084A	SPECIAL SCREW,X3
	115E	LY30018-0A8A	SPECIAL SCREW,X4
	115F	LY42866-001A	CAP(DC JACK)
	115G	LY32110-001A	COVER
	116	LY32106-001A	COVER(HINGE)
	117	LY30018-084A	SPECIAL SCREW,X2
	118	QAS0048-001	SPEAKER
	119	LY42167-001A	PLATE(SPK)
	120	LY42919-001A	KNOB(SLIDE)
	122	QUQ105-4007AA	FFC WIRE,MAIN CN101-MONI CN761
⚠	130	LY20711-003A	FRONT COVER ASSY
	130A	LY32111-002A	HOOD
	130B	LY32112-001A	RING
	130C	LY32113-001A	HOOD(SCREW)
	130D	LY42953-001A	MARK
	130E	LY30018-052A	SPECIAL SCREW,X3
	132	LY31617-002A	DC LIGHT ASSY
	132A	YQ44266	LAMP
	133	LY32114-001A	MICROPHONE
	134	LY40698-002A	LABEL(HOUSING)
	135	LY40699-002A	LABEL(PUSH)
	136	LY43093-003A	STICKER(TOP),A,B
		LY43093-011A	STICKER(TOP),C
	137	LY43094-002A	STICKER(SIDE)
	138	LY42182-002A	CAP(HOOD)ASSY
	138A	LY31627-001A	SPRING
	140	LY30018-084A	SPECIAL SCREW,X3
	141	LY30018-096A	SPECIAL SCREW,X2
	142	LY30018-038A	SPECIAL SCREW
	143	LY30018-084A	SPECIAL SCREW
	144	LY30018-0D1A	SPECIAL SCREW
	145	LY30018-084A	SPECIAL SCREW,X4
	146	LY30018-084A	SPECIAL SCREW,X3
	147	LY30018-038A	SPECIAL SCREW,X2
	148	LY30018-038A	SPECIAL SCREW,X5
	149	LY30018-084A	SPECIAL SCREW,X2
	150	LY30018-084A	SPECIAL SCREW,X2
	151	LY30018-023A	SPECIAL SCREW
	155	LY30018-084A	SPECIAL SCREW
	156	LY30019-029B	SPECIAL SCREW,X2
	157	LY30018-023A	SPECIAL SCREW
	158	LY30018-0D6A	SPECIAL SCREW,X2
	159	LY30018-023A	SPECIAL SCREW,X3
	160	LY30018-006B	SPECIAL SCREW
	162	LY30018-063A	SPECIAL SCREW
	163	LY30018-064A	SPECIAL SCREW
	170	LY30019-026A	SPECIAL SCREW,X2
	171	YQ43893-4	MINI SCREW
	172	YQ43893-4	MINI SCREW
	173	LY30019-033A	SPECIAL SCREW,X2
	174	QYSPSPT1730Z	SCREW,X2
	175	LY30018-066A	SPECIAL SCREW,X4
	176	LY30018-084A	SPECIAL SCREW
	177	LY30018-084A	SPECIAL SCREW,X2
	178	LY30018-084A	SPECIAL SCREW,X3
	179	LY30018-084A	SPECIAL SCREW,X5
	180	LY30018-092A	SPECIAL SCREW
	185	LY30018-065A	SPECIAL SCREW
	186	LY30018-006B	SPECIAL SCREW
	187	LY30018-092A	SPECIAL SCREW
	188	LY30018-065A	SPECIAL SCREW
	189	LY30018-037A	SPECIAL SCREW
	190	LY30018-037A	SPECIAL SCREW
	191	LY30018-084A	SPECIAL SCREW,X2
	195	LY20696-001A	BRACKET(MECHA)
	196	LY42846-001C	BRACKET(OP) ASSY
	196A	LY42796-001A	BUSH,X2
	198	LY32081-001A	SHIELD PLATE
	199	WJT0044-001A	E-CARD WIRE,MAIN CN113-JUNC CN571
	200	LY43092-001A	PLATE

– OPTICAL BLOCK SECTION –

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	251	J7A-233A	OPTICAL BLOCK ASSY
	251A	LY30723-001B	ZOOM MOTOR
	251B	LY30724-001B	FOCUS MOTOR
	251C	LY30727-002A	SCREW,X5
	251D	LY30727-001A	SCREW,X2
	251E	LY42936-001A	OPTICAL LPF
	251F	LY31639-001A	SPACER RUBBER
	251G	QYSPSGU1750Z	SCREW,X2
	251H	LY32160-001A	IRIS MOTOR
	251J	YS40168F	CCD BASE ASSY

5.3 MECHANISM ASSEMBLY <M3>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Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-P	AA
Oil	YTU94027	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

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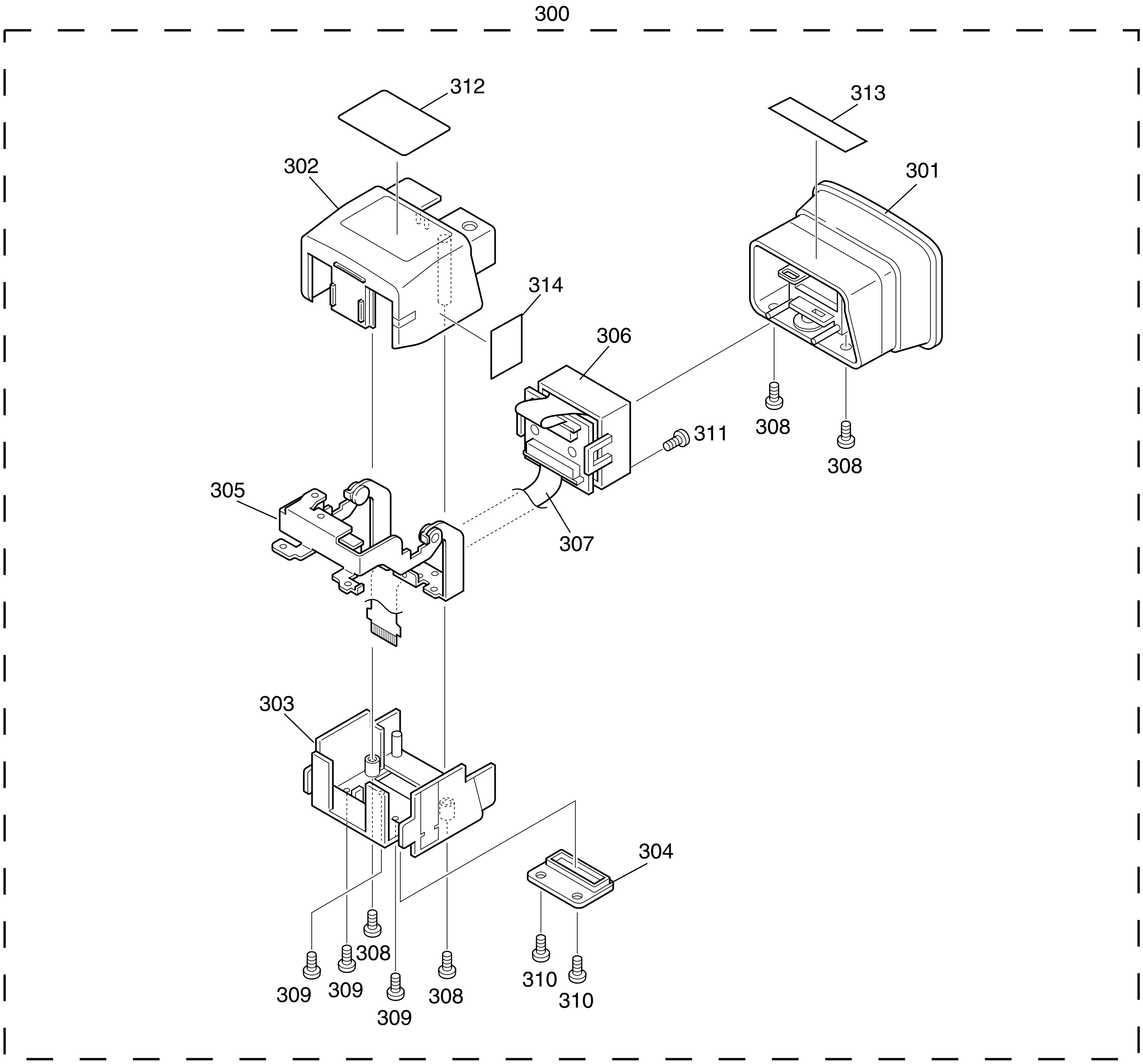
MECHANISM ASSEMBLY <M3>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
400	YMA0025H	MECHA(A)ASSY
401	LY10077-001M	MAIN DECK ASSY
402	LY30436-001G	SLANT POLE ARM ASSY
403	YQ44246	SLIT WASHER
404	LY30438-001B	CLEANER ARM ASSY
405	LY10080-001V	RAIL ASSY
406	YQ44246	SLIT WASHER,X3
407	LY40353-001D	GUIDE ROLLER(S)ASSY
408	LY30002-006C	COMPRESSION SPRING
409	QAR0026-002	CAPSTAN MOTOR
410	LY30504-001C	CATCHER(T)ASSY
411	YQ43893	MINI SCREW,X4
413	LY30448-001H	MOTOR BKT ASSY
414	YQ43893	MINI SCREW,X2
415	LY30449-001C	WORM WHEEL
416	YQ44246	SLIT WASHER
417	LY40496-001C	ROTARY ENCODER
418	YQ43893	MINI SCREW
419	YQ44246	SLIT WASHER
420	LY40614-001B	GEAR HOLDER
421	YQ43893-6	MINI SCREW
422	LY30450-001C	MAIN CAM
423	LY30840-001A	BRAKE CTL PLATE
424	YQ43893	MINI SCREW
425	LY40373-001C	TC LEVER ASSY
426	LY30452-001G	SLIDE LEVER ASSY
427	LY30454-001A	CONNECT GEAR
428	YQ44246	SLIT WASHER
429	LY30455-001B	SUB CAM
430	YQ43893	MINI SCREW
431	LY30456-001F	PINCHROLLER ARM ASSY
432	YQ44246	SLIT WASHER
433	LY30459-001A	CHARGE ARM ASSY
434	YQ44246	SLIT WASHER
435	LY40387-001D	BC LEVER ASSY
436	LY40389-001D	REEL DRIVE PULLEY ASSY
437	YQ44246-2	SLIT WASHER
438	LY40391-002B	CENTER GEAR ASSY
439	LY40396-001A	TIMING BELT
440	LY40413-001A	COLLAR,X2
441	LY30468-001E	GUIDE ARM ASSY
442	LY30618-001C	SLIDE GUIDE PLATE ASSY
443	YQ43893-2	MINI SCREW
444	LY40420-001J	TENSION ARM ASSY
445	YQ44246	SLIT WASHER
446	LY30471-001D	PAD ARM ASSY
447	YQ44246	SLIT WASHER
448	LY40432-001H	IDLER ARM ASSY
449	YQ44246-2	SLIT WASHER
450	LY30476-001A	GUIDE PIN(S)
451	YQ43893	MINI SCREW
452	LY40441-001B	REEL DISK(SUPPLY)ASSY
453	YQ44246	SLIT WASHER
454	LY40443-001B	REEL DISK(TAKE-UP)ASSY
455	YQ44246	SLIT WASHER
456	LY30477-001F	CTL PLATE ASSY
457	YQ44246	SLIT WASHER,X2
458	LY40444-001E	LOADING BRAKE ASSY
459	YQ44246	SLIT WASHER
460	LY40452-001C	SUB BRAKE ASSY
461	YQ44246	SLIT WASHER
462	LY30479-001E	RELEASE GUIDE ASSY
463	YQ44246	SLIT WASHER
464	LY20146-001H	REEL COVER ASSY
465	YQ43893-4	MINI SCREW,X2
466	YQ43893	MINI SCREW
467	YQ44246	SLIT WASHER
468	YDV2086K	DRUM ASSY
469	YQ43893	MINI SCREW,X3
470	LY20138-001D	PWB HOLDER
471	YQ43893	MINI SCREW,X2
472	LY10082-001L	SLIDE DECK ASSY
473	LY30462-001B	LOADING GUIDE
474	YQ43893	MINI SCREW
476	LY30016-0M1A	SPACER-A
478	LY30496-001W	DECK ASSY
480	LY41573-001A	WASHER
481	LY30483-001Q	CASSETTE HOUSING ASSY
482	YQ43893-4	MINI SCREW,X3

5.4 ELECTRONIC VIEWFINDER ASSEMBLY <M4> [GR-DVL450EG]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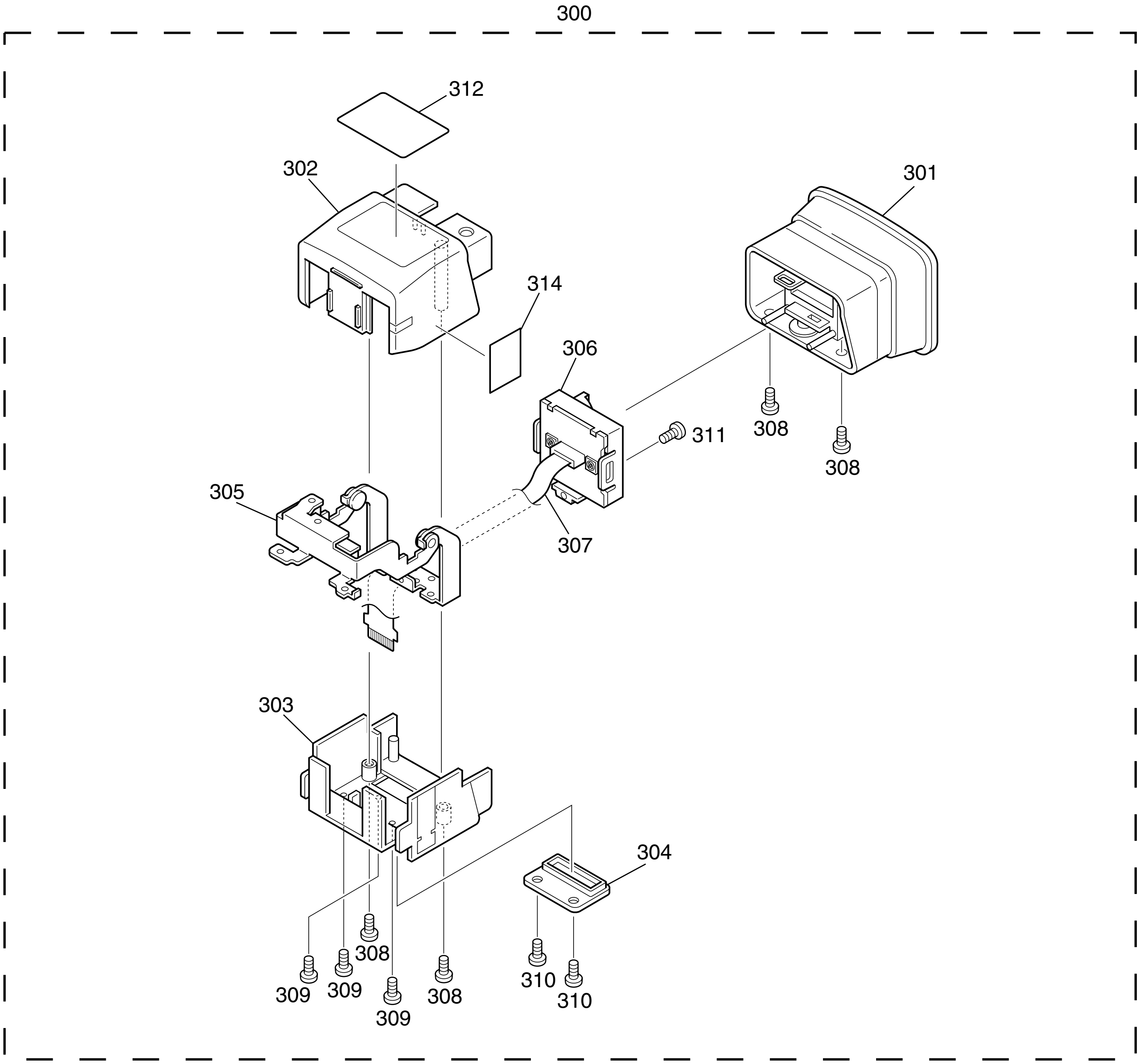
# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
			******************************
			ELECTRONIC VIEWFINDER ASSEMBLY <M4>
	300	LY20712-002B	VF ASSY
	301	PTY20712-001	EYE PIECE ASSY
	302	PTY20712-011	TOP CASE SUB ASSY
	303	PTY20712-021	BOTTOM CASE
	304	PTY20712-022	CAP(VF)
	305	PTY20712-031	HINGE ASSY

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	306	PTY20712-041	LCD ASSY
	307	QAL0287-001	FPC
	308	LY30018-063A	SPECIAL SCREW,X4
	309	LY30018-055A	SPECIAL SCREW,X3
	310	LY30018-035A	SPECIAL SCREW,X2
	311	PTY20712-051	SCREW
	312	LY41701-002A	SHEET(CAUTION)1
	313	LY40074-001A	LABEL/COLOR
	314	LY43041-002A	LABEL(VF)

5.4 ELECTRONIC VIEWFINDER ASSEMBLY <M4> [GR-DVL150EG/EK]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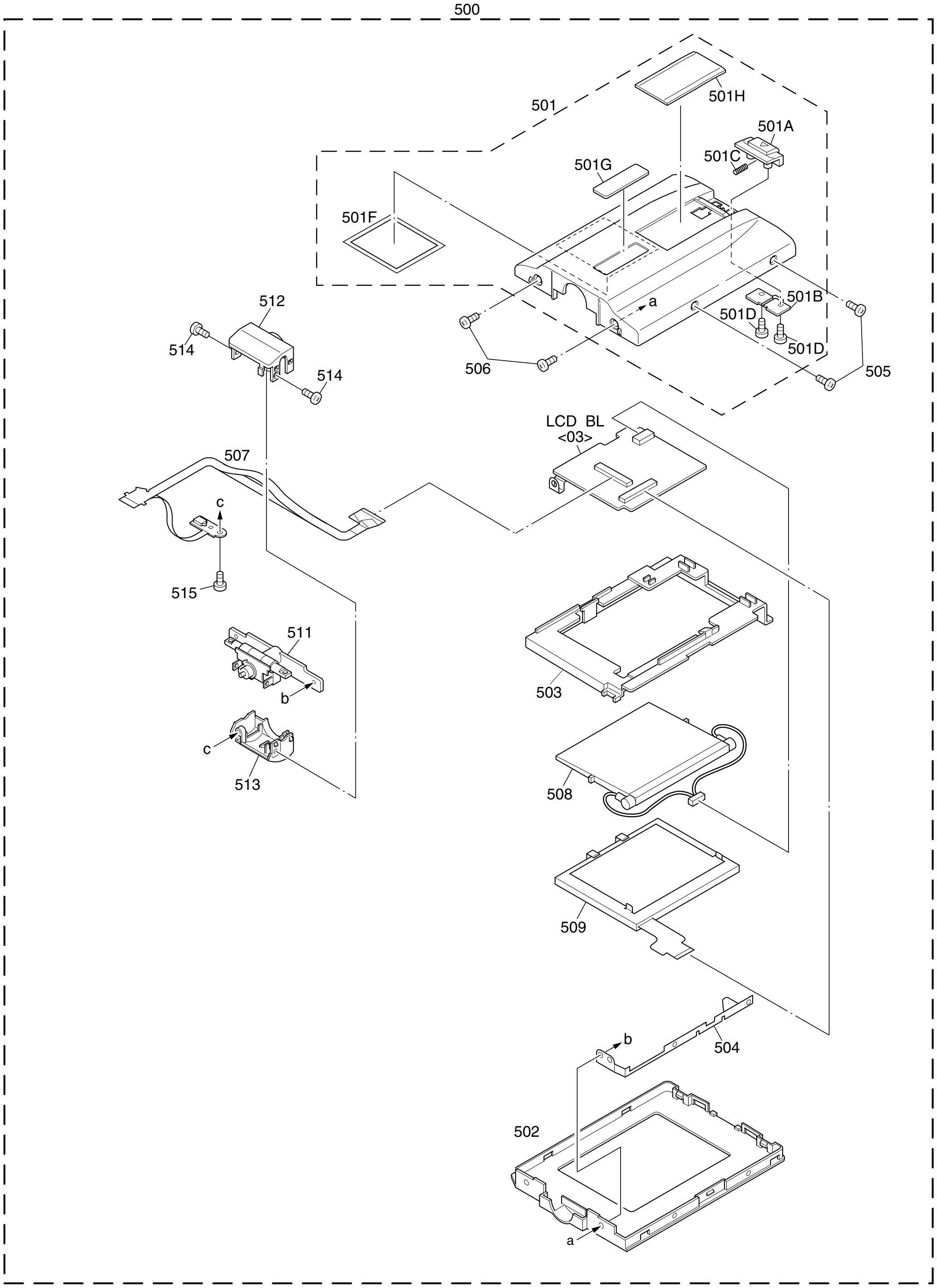
# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
			********************************
			ELECTRONIC VIEWFINDER ASSEMBLY <M4>
	300	LY20744-002B	VF UNIT
	301	PTY20744-001	EYE PIECE ASSY
	302	PTY20712-011	TOP CASE SUB ASSY
	303	PTY20712-021	BOTTOM CASE
	304	PTY20712-022	CAP(VF)
	305	PTY20712-031	HINGE ASSY
	306	PTY20744-041	LCD ASSY
	307	QAL0288-001	FPC
	308	LY30018-063A	SPECIAL SCREW,X4
	309	LY30018-055A	SPECIAL SCREW,X3
	310	LY30018-035A	SPECIAL SCREW,X2
	311	PTY20744-051	SCREW
	312	LY41701-002A	SHEET(CAUTION)1
	314	LY43041-002A	LABEL(VF),A

5.5 MONITOR ASSEMBLY <M5> [GR-DVL150EG/EK]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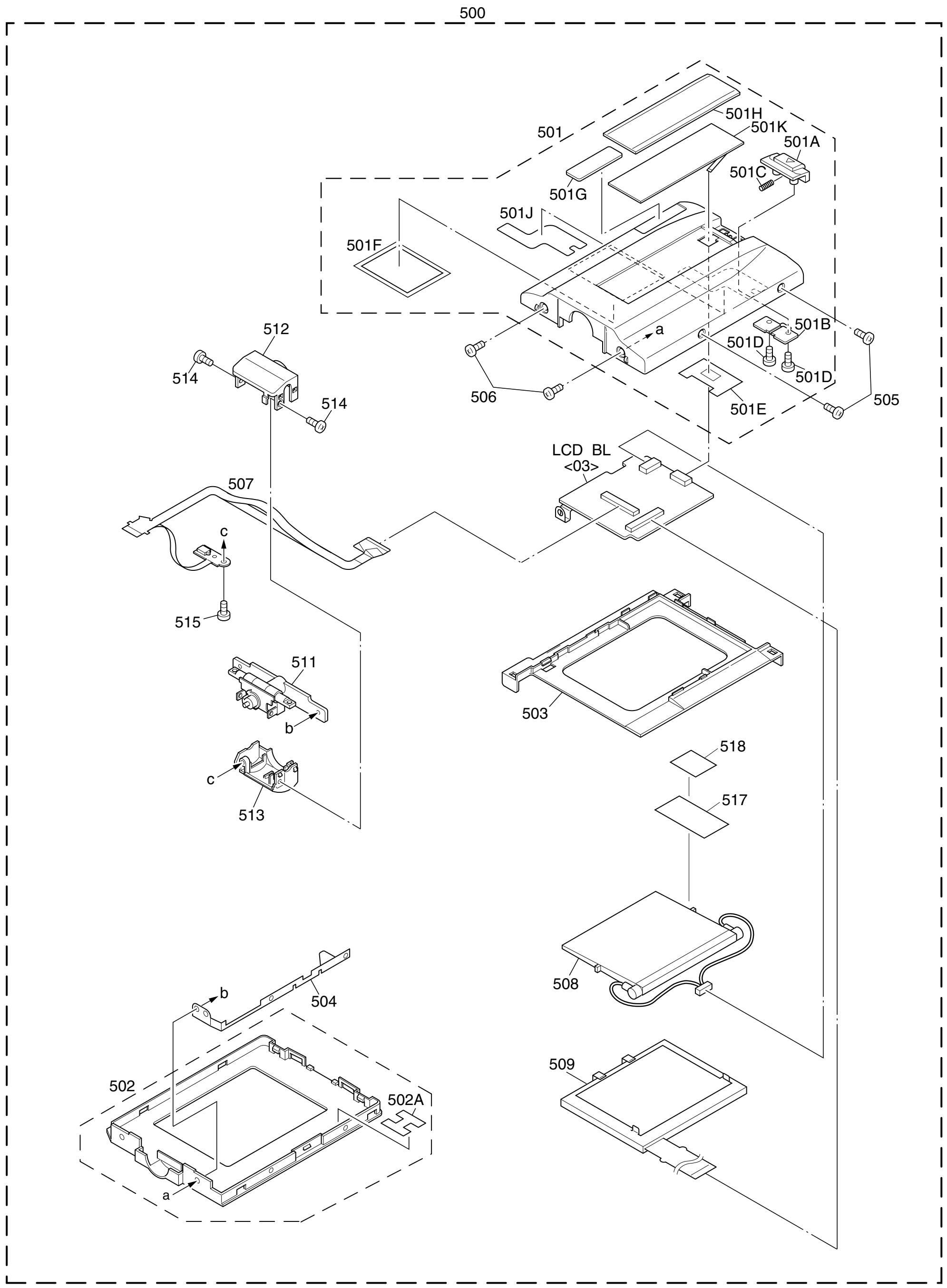
MONITOR ASSEMBLY <M5>

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	⚠	500	LYH20246-008B	MONITOR ASSY
	⚠	501	LY20702-002B	MONITOR COVER(2.5)ASSY
		501A	LY31620-001A	KNOB(LOCK 1)
		501B	LY42180-001A	KNOB(LOCK 2)
		501C	LY30002-044A	COMPRESSION SPRING
		501D	LY30018-084A	SPECIAL SCREW,X2
		501F	LY40559-001A	SHIELD SHEET
		501G	LY42883-001A	MARK
		501H	LY32087-001B	WINDOW
		502	LY10264-001A	MONITOR CASE(2.5)
		503	LY20674-001A	HOLDER(2.5)
		504	LY31622-001A	BRACKET(EARTH)
		505	QYSPSPT1730R	SCREW,X2
		506	QYSLSP2040D	SCREW,X2
		507	LY31743-001A	MONITOR FPC ASSY
		508	QLL0093-001	BACK LIGHT
		509	QLD0154-001	LCD MODULE
		511	LY32079-001A	HINGE ASSY
		512	LY32088-001A	HINGE COVER(1)
		513	LY32089-001A	HINGE COVER(2)
		514	LY30018-058A	SPECIAL SCREW,X2
		515	LY30018-023A	SPECIAL SCREW

5.5 MONITOR ASSEMBLY <M5> [GR-DVL450EG]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MONITOR ASSEMBLY <M5>

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	⚠	500	LYH20246-012A	MONITOR ASSY
	⚠	501	LY20721-003A	MONITOR COVER(3.5)ASSY
		501A	LY31620-001A	KNOB(LOCK 1)
		501B	LY42180-001A	KNOB(LOCK 2)
		501C	LY30002-044A	COMPRESSION SPRING
		501D	LY30018-011A	SPECIAL SCREW,X2
		501E	LY42368-001A	SHEET(MON)
		501F	LY40559-001A	SHIELD SHEET
		501G	LY42883-001A	MARK
		501H	LY32121-003A	WINDOW
		501J	LY42386-001A	EARTH MON
		501K	LY42193-001A	EL(WINDOW)
		502	LY20598-002A	MONITOR CASE ASSY
		502A	LY42388-001A	EARTH MON(2)
		503	LY20568-001A	HOLDER(3.5PWB)
		504	LY31622-001A	BRACKET(EARTH)
		505	QYSPSPT1730R	SCREW,X2
		506	QYSLSP2040D	SCREW,X2
		507	LY31743-001A	MONITOR FPC ASSY
		508	QLL0081-001	BACK LIGHT
		509	QLD0096-002	LCD MODULE
		511	LY32079-001A	HINGE ASSY
		512	LY32088-001A	HINGE COVER(1)
		513	LY32089-001A	HINGE COVER(2)
		514	LY30018-058A	SPECIAL SCREW,X2
		515	LY30018-023A	SPECIAL SCREW
		517	LY30029-0A5A	SPACER(A)
		518	PU59915-105	#500SPACER0.01

MODEL	MARK
GR-DVL150EG	A
GR-DVL150EK	B
GR-DVL450EG	C

5.6 ELECTRICAL PARTS LIST

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MAIN BOARD ASSEMBLY <01>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
PW	YB10330PA-01	MAIN BOARD ASSY
IC1001	UPD703039F1-A15	IC(MICRO C ROM)
	or UPD70F3040F1A15	IC(MICRO C ROM)
IC1002	RS5C314	IC
IC1003	AT25160N-10SC-X	IC
	or 25LC160-I/SN-X	IC
	or X25170S8I-2.5-X	IC
IC1004	TC75S56FU	IC
IC1005	TC7S00FU	IC
	or SN74AHC1G00K	IC
IC1006	MB90097PFV139	IC(MICRO C ROM)
IC1007	TC74VHC08FT	IC(DIGITAL)
	or SN74LV08APW	IC
IC1009	IC-PST9323U-X	IC
IC1301	SN74LV08APW	IC
	or TC74VHC08FT	IC(DIGITAL)
IC1302	MAX3221CAE	IC
	or ICL3221CA	IC
IC1303	TC7S32FU	IC(DIGITAL)
	or SN74AHC1G32K	IC
IC1304	TC7S02FU	IC(DIGITAL)
	or SN74AHC1G02K	IC
IC1401	YQ44901A	CSP IC ASSY
IC1402	TC7W66FK	IC
IC1404	TC7W14FU	IC(DIGITAL)
	or SN74AHC2G14T	IC
IC1601	BD6630KV	IC
IC2001	AK4560AVQ	IC
IC2301	JCY0137	IC
IC3001	JCY0106-2	IC
IC3002	M51V18165D50TSK	IC(DIGITAL)
IC3005	SN74AHC1G04K	IC
IC3007	TC7SL00FU	IC(DIGITAL)
IC3101	PDI1394P11ABD	IC
IC3201	JCY0107-2	IC
IC3202	TC7SH00FU	IC(DIGITAL)
IC3301	JCY0108	IC
	or JCY0181	IC
IC3501	AN3731FHQ	IC(DIGITAL)
IC3701	BA7665FS	IC
IC4201	HD49326BF	IC
IC4202	MM1385HN	IC
IC4301	JCY0150	IC
IC4302	TMS4C2973-28-X	IC
IC4304	MM1385NN	IC
IC4802	TA75W01FU	IC
IC4803	TA75W01FU	IC
IC4804	UPC358G2/5/-W	IC
IC4806	TC7W00FK	IC
IC4851	UPD16879GS	IC
IC5501	JCY0117	IC
IC6001	S-80842ANNP-W	IC
IC6101	FA3698F	IC
Q1001	DTC124EE	DIGI TRANSISTOR
Q1002	2SC4617/RS/-X	TRANSISTOR
Q1003	DTC143EE	DIGI TRANSISTOR
Q1004	DTA114EE	DIGI TRANSISTOR
	or PDTA114EE	DIGI TRANSISTOR
	or RN2102	DIGI TRANSISTOR

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
Q1005	DTC144EE	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
	or PDTC144EE	DIGI TRANSISTOR
	or RN1104	DIGI TRANSISTOR
Q1006	DTA114EE	DIGI TRANSISTOR
	or PDTA114EE	DIGI TRANSISTOR
	or RN2102	DIGI TRANSISTOR
Q1007	DTC144EE	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
	or PDTC144EE	DIGI TRANSISTOR
	or RN1104	DIGI TRANSISTOR
Q1301	2SC4617/RS/-X	TRANSISTOR
Q1401	DTA114EE	DIGI TRANSISTOR
	or PDTA114EE	DIGI TRANSISTOR
	or RN2102	DIGI TRANSISTOR
Q1402	UMC3N	DIGI TRANSISTOR
Q1403	UMC3N	DIGI TRANSISTOR
Q1404	DTC144EE	DIGI TRANSISTOR
	or PDTC144EE	DIGI TRANSISTOR
	or RN1104	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
Q1601	UMC3N	DIGI TRANSISTOR
Q2001	UMX1N	PAIR TRANSISTOR
Q2002	2SC4617/RS/-X	TRANSISTOR
Q2004	2SC4617/RS/-X	TRANSISTOR
Q3501	2SC4226/4/-X	TRANSISTOR
Q3502	2SD1979/S/-X	TRANSISTOR
Q3503	2SD1979/S/-X	TRANSISTOR
Q3504	2SC4226/4/-X	TRANSISTOR
Q3551	2SA1577/RS/-X	TRANSISTOR
Q3552	DTC144EE	DIGI TRANSISTOR
	or PDTC144EE	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
	or RN1104	DIGI TRANSISTOR
Q3701	UMT2N	PAIR TRANSISTOR
Q3702	UMZ1N	PAIR TRANSISTOR
	or PUMZ1	PAIR TRANSISTOR
Q4301	UMT2N	PAIR TRANSISTOR
Q4302	UMT2N	PAIR TRANSISTOR
Q4801	2SC4655/BC/-X	TRANSISTOR
Q4851	2SC4617/RS/-X	TRANSISTOR
Q6001	DTC144EE	DIGI TRANSISTOR
	or PDTC144EE	DIGI TRANSISTOR
	or RN1104	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
Q6002	2SK3019	MOS FET
Q6003	2SJ347	MOS FET
Q6004	2SB1121/TU/-X	TRANSISTOR
Q6101	2SK3019	MOS FET
Q6102	2SK3019	MOS FET
Q6201	NDS352AP	MOS FET
Q6202	2SA1577/RS/-X	TRANSISTOR
Q6203	SSM6J07FU	MOS FET
Q6204	CPH3304	MOS FET
Q6205	CPH3101	TRANSISTOR
Q6206	2SC4617/RS/-X	TRANSISTOR
Q6207	2SD1621/TU/-X	TRANSISTOR
Q6208	SSM6J07FU	MOS FET
Q6210	SSM6J07FU	MOS FET
Q6211	NDS352AP	MOS FET
Q6212	HN1C01FU/G/-X	PAIR TRANSISTOR
	or PUMX1	PAIR TRANSISTOR
Q6213	2SA1577/RS/-X	TRANSISTOR

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	Q6214	DTC144EE	DIGI TRANSISTOR	
		or PDTC144EE	DIGI TRANSISTOR	
		or RN1104	DIGI TRANSISTOR	
		or UN9213J	DIGI TRANSISTOR	
	Q6215	HN1A01FU/G/-X	PAIR TRANSISTOR	
		or PUMT1	PAIR TRANSISTOR	
	Q6216	2SC4617/RS/-X	TRANSISTOR	
	Q6217	UMZ1N	PAIR TRANSISTOR	
	Q6701	TPC6102	MOS FET	
	D1001	DA221	DIODE	
	D1302	RB501V-40-X	SB DIODE	
	D1602	DAP222	DIODE	
	D1603	DAP222	DIODE	
	D1604	DAP222	DIODE	
	D5501	1SS355	DIODE	
⚠	D6002	RB715F	SB DIODE	
	D6201	EP10LA03	SB DIODE	
	D6202	EP10LA03	SB DIODE	
	D6203	EP10LA03	SB DIODE	
	D6204	EP10LA03	SB DIODE	
	D6205	EP10LA03	SB DIODE	
	D6206	1SS383	SB DIODE	
	D6207	MA8091/L/-X	ZENER DIODE	
	D6701	CRS09	SB DIODE	
	D6702	CRS09	SB DIODE	
	R1001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1002	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
	R1003	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R1004	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1005	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
	R1006	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1007	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
	R1008	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
	R1009	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
	R1010	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
	R1011	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1012	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1013	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1014	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1015	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
	R1016	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
	R1017	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1018	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1019	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R1020	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1021	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1022	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1023	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1024	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
	R1025	NRVA6AD-623W	CMF RESISTOR	62kΩ,1/16W
	R1026	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1027	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1028	NRSA6AJ-185W	MG RESISTOR	1.8MΩ,1/16W
	R1029	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1030	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1031	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1032	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1033	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1034	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1037	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1039	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1040	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1044	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	R1045	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
	R1046	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1047	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1048	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1049	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W
	R1050	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
	R1051	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
	R1052	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
	R1053	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
	R1054	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1055	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1056	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R1057	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1058	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
	R1061	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1062	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1080	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1081	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R1302	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R1306	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R1401	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1402	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
	R1403	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
	R1408	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R1409	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1413	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1414	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1415	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1416	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1418	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
	R1419	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
	R1420	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1422	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1423	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1424	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1425	NRVA6AD-753W	CMF RESISTOR	75kΩ,1/16W
	R1426	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
	R1427	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1428	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
	R1429	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1430	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1432	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
	R1434	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
	R1436	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
	R1437	NRVA6AD-103W	CMF RESISTOR	10kΩ,1/16W
	R1439	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1440	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1441	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1442	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1445	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
	R1446	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1447	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1601	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
	R1602	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
	R1603	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R1604	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1605	NRV142F-R22X	CMF RESISTOR	0.22Ω,1/4W
	R1606	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1608	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
	R1609	NRV142F-R33X	CMF RESISTOR	0.33Ω,1/4W
	R1610	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
	R1611	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
	R1612	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R1613	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1614	NRVA6AD-682W	CMF RESISTOR	6.8kΩ,1/16W
R1615	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1616	NRSA6AJ-391W	MG RESISTOR	390Ω,1/16W
R1617	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R1618	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R1619	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R1620	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1621	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1622	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1624	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
R1625	NRSA6AJ-181W	MG RESISTOR	180Ω,1/16W
R1626	NRSA6AJ-181W	MG RESISTOR	180Ω,1/16W
R1628	NRVA6AD-271W	CMF RESISTOR	270Ω,1/16W
R1629	NRSA6AJ-684W	MG RESISTOR	680kΩ,1/16W
R1635	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1636	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1637	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R2006	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2007	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2008	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2009	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2014	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
R2015	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
R2016	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
R2017	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2018	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2019	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2020	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2023	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2024	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R2025	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2026	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2027	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2028	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R2029	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2101	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R2102	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R2103	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2104	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2105	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2106	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2107	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2108	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2109	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2110	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2111	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2112	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2113	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2114	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2117	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2118	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2119	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2120	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2127	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2128	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2129	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2130	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2201	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R2202	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R2301	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2302	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2303	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2304	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2305	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2306	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2307	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2308	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2309	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2311	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3002	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3008	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3012	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3013	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3016	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3017	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3018	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3019	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3030	NRVA6AD-682W	CMF RESISTOR	6.8kΩ,1/16W
R3031	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3032	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3036	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3048	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3052	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3054	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R3056	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R3057	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3058	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3059	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3060	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3061	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R3062	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R3063	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R3064	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3101	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R3102	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3103	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3105	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3106	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R3113	NRSA6AJ-394W	MG RESISTOR	390kΩ,1/16W
R3115	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3117	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R3118	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R3119	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R3120	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R3121	NRSA6AJ-512W	MG RESISTOR	5.1kΩ,1/16W
R3128	NRVA6AD-272W	CMF RESISTOR	2.7kΩ,1/16W
R3129	NRVA6AD-362W	CMF RESISTOR	3.6kΩ,1/16W
R3201	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3202	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3203	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R3204	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R3208	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
R3209	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3211	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3303	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R3305	NRSA6AJ-121W	MG RESISTOR	120Ω,1/16W
R3306	NRSA6AJ-391W	MG RESISTOR	390Ω,1/16W
R3308	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R3310	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3312	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3315	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3316	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3317	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3318	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
R3319	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R3320	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3322	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3323	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R3324	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R3325	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3326	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3327	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3328	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R3329	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3330	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R3331	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R3332	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3333	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R3334	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3335	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R3336	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3337	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R3338	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W
R3339	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W
R3341	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R3342	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3344	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
R3349	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3350	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R3351	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3352	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
R3353	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R3502	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R3503	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3504	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R3505	NRSA6AJ-680W	MG RESISTOR	68Ω,1/16W
R3506	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R3507	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R3508	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3509	NRSA6AJ-181W	MG RESISTOR	180Ω,1/16W
R3510	NRSA6AJ-181W	MG RESISTOR	180Ω,1/16W
R3511	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3512	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R3513	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R3514	NRSA6AJ-680W	MG RESISTOR	68Ω,1/16W
R3515	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3516	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R3517	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3551	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R3552	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3554	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R3555	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3556	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3701	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3702	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3703	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3706	NRSA6AD-221W	MG RESISTOR	220Ω,1/16W
R3707	NRSA6AD-221W	MG RESISTOR	220Ω,1/16W
R3708	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3711	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R3712	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R3713	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R3714	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R3715	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3717	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3718	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3719	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3723	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3724	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R4202	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4203	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4204	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4205	NRSA6AJ-243W	MG RESISTOR	24kΩ,1/16W
R4206	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4207	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4208	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4301	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4304	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4305	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4307	NRSA6AD-333W	MG RESISTOR	33kΩ,1/16W
R4308	NRSA6AD-682W	MG RESISTOR	6.8kΩ,1/16W
R4309	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4311	NRSA6AD-272W	MG RESISTOR	2.7kΩ,1/16W
R4312	NRSA6AD-272W	MG RESISTOR	2.7kΩ,1/16W
R4313	NRSA6AD-272W	MG RESISTOR	2.7kΩ,1/16W
R4314	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
R4315	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
R4316	NRSA6AD-111W	MG RESISTOR	110Ω,1/16W
R4317	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4318	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R4319	NRSA6AD-111W	MG RESISTOR	110Ω,1/16W
R4320	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4321	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R4322	NRSA6AD-111W	MG RESISTOR	110Ω,1/16W
R4323	NRSA6AD-101W	MG RESISTOR	100Ω,1/16W
R4324	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R4326	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4327	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R4328	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4329	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4333	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4336	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4337	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4338	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4339	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4340	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4341	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4343	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4344	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4347	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4348	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4349	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4350	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4351	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4804	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R4805	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4806	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
R4807	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R4808	NRSA6AJ-243W	MG RESISTOR	24kΩ,1/16W
R4809	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R4810	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4811	NRSA6AJ-824W	MG RESISTOR	820kΩ,1/16W
R4812	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R4814	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4815	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4816	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4817	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R4818	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R4819	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4820	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4821	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	R4822	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
	R4823	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R4824	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R4833	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R4836	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R4856	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
	R4857	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
	R4858	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
	R4862	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
	R4863	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
	R4864	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R4865	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R4866	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R4867	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R4868	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R4870	NRSA6AJ-271W	MG RESISTOR	270Ω,1/16W
	R4874	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5501	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5503	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5504	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5505	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5506	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5507	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R5509	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
	R5510	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
	R5511	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
	R5512	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R5513	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R5514	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R5517	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R6001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R6002	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R6003	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
	R6004	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
	R6005	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
⚠	R6009	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R6010	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R6011	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R6012	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
	R6013	NRVA6AD-683W	CMF RESISTOR	68kΩ,1/16W
	R6014	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	R6015	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
	R6016	NRVA6AD-333W	CMF RESISTOR	33kΩ,1/16W
	R6101	NRVA6AD-103W	CMF RESISTOR	10kΩ,1/16W
	R6102	NRVA6AD-751W	CMF RESISTOR	750Ω,1/16W
	R6103	NRVA6AD-333W	CMF RESISTOR	33kΩ,1/16W
	R6104	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R6105	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
	R6106	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
	R6107	NRVA6AD-562W	CMF RESISTOR	5.6kΩ,1/16W
	R6108	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
	R6110	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R6113	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R6114	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
	R6115	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
	R6116	NRVA6AD-153W	CMF RESISTOR	15kΩ,1/16W
	R6117	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R6118	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R6122	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R6124	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R6201	NRVA6AD-243W	CMF RESISTOR	24kΩ,1/16W
	R6203	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
	R6204	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R6205	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R6206	NRVA6AD-183W	CMF RESISTOR	18kΩ,1/16W
	R6207	NRVA6AD-153W	CMF RESISTOR	15kΩ,1/16W
	R6208	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
	R6209	NRVA6AD-153W	CMF RESISTOR	15kΩ,1/16W
	R6210	NRVA6AD-183W	CMF RESISTOR	18kΩ,1/16W
	R6212	NRVA6AD-472W	CMF RESISTOR	4.7kΩ,1/16W
	R6213	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R6214	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
	R6215	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R6217	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
	R6218	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R6219	NRVA6AD-243W	CMF RESISTOR	24kΩ,1/16W
	R6220	NRVA6AD-302W	CMF RESISTOR	3kΩ,1/16W
	R6221	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
	R6223	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
	R6224	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
	R6225	NRVA6AD-562W	CMF RESISTOR	5.6kΩ,1/16W
	R6226	NRVA6AD-223W	CMF RESISTOR	22kΩ,1/16W
	R6227	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
	R6228	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
	R6229	NRVA6AD-332W	CMF RESISTOR	3.3kΩ,1/16W
	R6230	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
	R6231	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
	R6232	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
	R6233	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
	R6234	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W
	R6235	NRVA6AD-683W	CMF RESISTOR	68kΩ,1/16W
	R6236	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
	R6237	NRVA6AD-753W	CMF RESISTOR	75kΩ,1/16W
	R6238	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
	R6239	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R6240	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
	R6241	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R6242	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R6243	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
	R6244	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
	R6245	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
	R6246	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
	R6701	NRZ0058-R20X	MG RESISTOR	0.2Ω
	R6702	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
	R6703	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
	R6712	NRVA6AD-823W	CMF RESISTOR	82kΩ,1/16W
	R6713	NRVA6AD-333W	CMF RESISTOR	33kΩ,1/16W
	RA1001	NRZ0034-102W	NETWORK RESISTOR	1kΩ
	RA1002	NRZ0034-102W	NETWORK RESISTOR	1kΩ
	RA1003	NRZ0034-102W	NETWORK RESISTOR	1kΩ
	RA1004	NRZ0034-102W	NETWORK RESISTOR	1kΩ
	RA1005	NRZ0034-102W	NETWORK RESISTOR	1kΩ
	RA1006	NRZ0034-102W	NETWORK RESISTOR	1kΩ
	RA1007	NRZ0034-102W	NETWORK RESISTOR	1kΩ
	RA1008	NRZ0034-104W	NETWORK RESISTOR	100kΩ
	RA1009	NRZ0034-104W	NETWORK RESISTOR	100kΩ
	RA1010	NRZ0034-104W	NETWORK RESISTOR	100kΩ
	RA1401	NRZ0034-473W	NETWORK RESISTOR	47kΩ
	RA1403	NRZ0034-102W	NETWORK RESISTOR	1kΩ
	RA3001	NRZ0034-100W	NETWORK RESISTOR	10Ω
	RA3002	NRZ0034-100W	NETWORK RESISTOR	10Ω
	RA4301	NRZ0034-101W	NETWORK RESISTOR	100Ω
	RA4302	NRZ0034-101W	NETWORK RESISTOR	100Ω
	RA4303	NRZ0034-101W	NETWORK RESISTOR	100Ω
	C1001	NBE20JM-226X	T CAPACITOR	22μF,6.3V
⚠	C1002	NCFA1AZ-104W	CAPACITOR	0.1μF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C1003	NBE20JM-226X	T CAPACITOR	22µF,6.3V
C1004	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1005	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1006	NDCA1HJ-130W	CAPACITOR	13pF,50V
C1007	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1009	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1010	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1011	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1012	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1014	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1015	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1016	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1017	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1019	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1023	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1026	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1027	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1028	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1029	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1030	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1031	NCB30JK-105X	CAPACITOR	1µF,6.3V
C1034	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1035	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1036	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1037	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1038	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1039	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1040	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1041	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1042	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1301	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1302	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1303	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1304	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1305	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1306	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1307	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1401	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C1402	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C1405	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1406	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1408	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1409	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1410	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1411	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1412	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1413	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1414	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1415	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1416	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1417	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1418	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1419	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1420	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1601	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1602	NBE21AM-106X	T CAPACITOR	10µF,10V
C1603	NBE21AM-106X	T CAPACITOR	10µF,10V
C1605	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1606	NCB31HK-152X	CAPACITOR	0.0015µF,50V
C1607	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C1614	NBE21AM-106X	T CAPACITOR	10µF,10V
C1618	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
C1619	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
C1620	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
C1621	NCB21CK-105X	CAPACITOR	1µF,16V
C1622	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1623	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C1624	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1625	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C1626	NCBA1HK-331W	CAPACITOR	330pF,50V
C1627	NCBA1CK-822W	CAPACITOR	0.0082µF,16V
C1628	NCB21CK-224X	CAPACITOR	0.22µF,16V
C1632	NBE21AM-106X	T CAPACITOR	10µF,10V
C1633	NCB21CK-474X	CAPACITOR	0.47µF,16V
C1635	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1641	NCB21CK-474X	CAPACITOR	0.47µF,16V
C2001	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2002	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2004	NCB21CK-105X	CAPACITOR	1µF,16V
C2005	NCB21CK-105X	CAPACITOR	1µF,16V
C2006	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2007	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2008	NCB21CK-105X	CAPACITOR	1µF,16V
C2009	NCB21CK-105X	CAPACITOR	1µF,16V
C2010	NCB21CK-105X	CAPACITOR	1µF,16V
C2011	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2012	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2013	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2014	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2015	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2016	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C2017	NCBA1AK-333W	CAPACITOR	0.033µF,10V
C2018	NCB31CK-104X	CAPACITOR	0.1µF,16V
C2019	NCB31CK-104X	CAPACITOR	0.1µF,16V
C2020	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2021	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2101	NCB31CK-104X	CAPACITOR	0.1µF,16V
C2102	NCB31CK-104X	CAPACITOR	0.1µF,16V
C2103	NCB21CK-105X	CAPACITOR	1µF,16V
C2104	NCB21CK-105X	CAPACITOR	1µF,16V
C2109	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2110	NCB21CK-105X	CAPACITOR	1µF,16V
C2111	NCBA1EK-472W	CAPACITOR	0.0047µF,25V
C2112	NCBA1EK-472W	CAPACITOR	0.0047µF,25V
C2113	NCBA1EK-472W	CAPACITOR	0.0047µF,25V
C2114	NCBA1EK-472W	CAPACITOR	0.0047µF,25V
C2115	NCB31CK-104X	CAPACITOR	0.1µF,16V
C2116	NCB31CK-104X	CAPACITOR	0.1µF,16V
C2121	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C2122	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C2123	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C2124	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C2125	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C2126	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C2131	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C2132	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C2133	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C2134	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C2201	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2202	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2301	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2302	NCB31CK-104X	CAPACITOR	0.1µF,16V
C2304	NDCA1HJ-101W	CAPACITOR	100pF,50V
C2306	NDCA1HJ-101W	CAPACITOR	100pF,50V
C2307	NDCA1HJ-101W	CAPACITOR	100pF,50V
C3003	NBE20JM-106X	T CAPACITOR	10µF,6.3V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3004	NBE20GM-226X	T CAPACITOR	22µF,4.0V
C3006	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3009	NDCA1HJ-100W	CAPACITOR	10pF,50V
C3010	NDCA1HJ-100W	CAPACITOR	10pF,50V
C3011	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3012	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3022	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3023	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3027	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3028	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3035	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3037	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3038	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3040	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3041	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3042	NCB30JK-474X	CAPACITOR	0.47µF,6.3V
C3043	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3048	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3049	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3050	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3101	NDCA1EJ-271W	CAPACITOR	270pF,25V
C3102	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3103	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3104	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3105	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3106	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3107	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3108	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3109	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3201	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3202	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3203	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3205	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3206	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3207	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3208	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3209	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3210	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3211	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3212	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3213	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3214	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3215	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3216	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3217	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3221	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3222	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3301	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3302	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3303	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3304	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3305	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3306	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3308	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3309	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C3310	NDCA1HJ-151W	CAPACITOR	150pF,50V
C3311	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3312	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3313	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3314	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3315	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3316	NCB20JK-225X	CAPACITOR	2.2µF,6.3V
C3317	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3318	NCBA1AK-683W	CAPACITOR	0.068µF,10V
C3319	NCB20JK-225X	CAPACITOR	2.2µF,6.3V
C3320	NCBA1AK-333W	CAPACITOR	0.033µF,10V
C3321	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3322	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3324	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3325	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3326	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3327	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3328	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3329	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3330	NDCA1HJ-100W	CAPACITOR	10pF,50V
C3331	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3332	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3501	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3502	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3503	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3504	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3505	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3506	NCBA1HK-152W	CAPACITOR	0.0015µF,50V
C3507	NBE90JM-106X	T CAPACITOR	10µF,6.3V
C3508	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3509	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3510	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3511	NDCA1HJ-220W	CAPACITOR	22pF,50V
C3512	NBE90JM-106X	T CAPACITOR	10µF,6.3V
C3513	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3514	NBE90JM-106X	T CAPACITOR	10µF,6.3V
C3515	NDCA1HJ-220W	CAPACITOR	22pF,50V
C3516	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3517	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3518	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3519	NBE90JM-106X	T CAPACITOR	10µF,6.3V
C3520	NCBA1HK-152W	CAPACITOR	0.0015µF,50V
C3521	NCBA1HK-122W	CAPACITOR	0.0012µF,50V
C3522	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3523	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3524	NDCA1HJ-470W	CAPACITOR	47pF,50V
C3525	NCBA1HK-681W	CAPACITOR	680pF,50V
C3526	NBE90JM-106X	T CAPACITOR	10µF,6.3V
C3527	NBE90JM-106X	T CAPACITOR	10µF,6.3V
C3528	NBE90JM-106X	T CAPACITOR	10µF,6.3V
C3529	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3551	NBE40JM-476X	T CAPACITOR	47µF,6.3V
C3552	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3701	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3702	NDCA1HJ-151W	CAPACITOR	150pF,50V
C3703	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3704	NDCA1HJ-101W	CAPACITOR	100pF,50V
C3705	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3706	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3707	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C3708	NCB30JK-105X	CAPACITOR	1µF,6.3V
C3709	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3710	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C3711	NBE20GM-226X	T CAPACITOR	22µF,4.0V
C3712	NBE40GM-107X	T CAPACITOR	100µF,4.0V
C3713	NEA70GM-337X	E CAPACITOR	330µF,4.0V
C4201	NBE40GM-107X	T CAPACITOR	100µF,4.0V
C4202	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4203	NCB30JK-105X	CAPACITOR	1µF,6.3V
C4204	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C4205	NCBA1AK-104W	CAPACITOR	0.1µF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C4206	NCB21CK-105X	CAPACITOR	1μF,16V
C4207	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4208	NCBA1HK-392W	CAPACITOR	0.0039μF,50V
C4209	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4210	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4211	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4212	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4213	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4214	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4215	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4216	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4301	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4303	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4304	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4305	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4306	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4307	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4308	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4309	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4310	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4311	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4312	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4313	NBE20JM-226X	T CAPACITOR	22μF,6.3V
C4314	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4315	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4317	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4318	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4319	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4320	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4321	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4323	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4324	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4325	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4327	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4328	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4329	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4330	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4331	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4332	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4333	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4334	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4335	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4336	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4337	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4338	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4339	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4340	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4341	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4342	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4343	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4344	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4345	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4346	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4347	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4348	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4349	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4350	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4803	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4804	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4805	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4806	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4808	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4809	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4810	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4811	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4812	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4813	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4814	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4815	NCB31HK-152X	CAPACITOR	0.0015μF,50V
C4819	NCB31CK-104X	CAPACITOR	0.1μF,16V
C4851	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4852	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4853	NBE21AM-335X	T CAPACITOR	3.3μF,10V
C4854	NBE21AM-106X	T CAPACITOR	10μF,10V
C4855	NCB31CK-104X	CAPACITOR	0.1μF,16V
C4858	NDCA1HJ-330W	CAPACITOR	33pF,50V
C4859	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4860	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4861	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4862	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4864	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4865	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5501	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5503	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5504	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5505	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5506	NBE40GM-476X	T CAPACITOR	47μF,4.0V
C5507	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5508	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5509	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5510	NBP21VM-105X	T CAPACITOR	1μF,35V
C5511	NBP21DM-475X	T CAPACITOR	4.7μF,20V
C5512	NBE21AM-106X	T CAPACITOR	10μF,10V
C5513	NCB31CK-104X	CAPACITOR	0.1μF,16V
C5514	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5515	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5516	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5517	NCB31CK-104X	CAPACITOR	0.1μF,16V
C5518	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5519	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5520	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6001	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6004	NCB21CK-105X	CAPACITOR	1μF,16V
C6005	NDCA1HJ-101W	CAPACITOR	100pF,50V
C6101	NCB21CK-105X	CAPACITOR	1μF,16V
C6102	NEA71CM-106X	E CAPACITOR	10μF,16V
C6103	NCB21CK-105X	CAPACITOR	1μF,16V
C6105	NCB21CK-105X	CAPACITOR	1μF,16V
C6106	NCB21CK-105X	CAPACITOR	1μF,16V
C6107	NCB21CK-105X	CAPACITOR	1μF,16V
C6108	NCB21CK-105X	CAPACITOR	1μF,16V
C6109	NCB21CK-105X	CAPACITOR	1μF,16V
C6110	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6111	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6112	NCBA1AK-333W	CAPACITOR	0.033μF,10V
C6113	NCBA1HK-561W	CAPACITOR	560pF,50V
C6114	NCBA1HK-272W	CAPACITOR	0.0027μF,50V
C6115	NCBA1HK-561W	CAPACITOR	560pF,50V
C6116	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6117	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6118	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6119	NDCA1HJ-101W	CAPACITOR	100pF,50V
C6120	NCB11CK-105X	CAPACITOR	1μF,16V
C6121	NCB31CK-104X	CAPACITOR	0.1μF,16V
C6122	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C6123	NCBA1CK-103W	CAPACITOR	0.01μF,16V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C6124	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6125	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6126	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6127	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C6128	NCB21CK-105X	CAPACITOR	1μF,16V
C6129	NCBA1HK-561W	CAPACITOR	560pF,50V
C6130	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6131	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6132	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6133	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6134	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6201	NCB21CK-105X	CAPACITOR	1μF,16V
C6202	NCB10JK-106X	CAPACITOR	10μF,6.3V
C6203	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C6204	NCBA1HK-561W	CAPACITOR	560pF,50V
C6205	NCB21CK-105X	CAPACITOR	1μF,16V
C6206	NCB21CK-105X	CAPACITOR	1μF,16V
C6207	NCB10JK-106X	CAPACITOR	10μF,6.3V
C6208	NCBA1EK-472W	CAPACITOR	0.0047μF,25V
C6209	NCB21CK-105X	CAPACITOR	1μF,16V
C6210	NCB10JK-106X	CAPACITOR	10μF,6.3V
C6211	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C6213	NCB11EK-105X	CAPACITOR	1μF,25V
C6214	NCB21CK-105X	CAPACITOR	1μF,16V
C6215	NCB21CK-105X	CAPACITOR	1μF,16V
C6216	NCBA1AK-683W	CAPACITOR	0.068μF,10V
C6217	NCB21CK-105X	CAPACITOR	1μF,16V
C6218	NCB21CK-105X	CAPACITOR	1μF,16V
C6219	NCB21CK-224X	CAPACITOR	0.22μF,16V
C6220	NCB21CK-105X	CAPACITOR	1μF,16V
C6221	NCB11EK-105X	CAPACITOR	1μF,25V
C6222	NCB11EK-105X	CAPACITOR	1μF,25V
C6224	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C6225	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6226	NCB21CK-105X	CAPACITOR	1μF,16V
C6227	NCB11EK-105X	CAPACITOR	1μF,25V
C6228	NCB11EK-105X	CAPACITOR	1μF,25V
C6230	NCB21CK-105X	CAPACITOR	1μF,16V
C6231	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6701	NCB21CK-105X	CAPACITOR	1μF,16V
C6703	NCB11CK-105X	CAPACITOR	1μF,16V
L1001	NQL315K-100X	COIL	10μH
L1002	NQL315K-100X	COIL	10μH
L1401	NQR0006-001X	FERRITE BEAD	
L1402	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
L2001	NQL315K-100X	COIL	10μH
L2002	NQL38DK-220X	COIL	22μH
L2201	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2202	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2203	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2301	NQL402M-100X	COIL	10μH
L3001	NQR0129-002X	FERRITE BEAD	
L3002	NQR0129-002X	FERRITE BEAD	
L3005	NQR0006-001X	FERRITE BEAD	
L3101	NQR0269-017X	FERRITE BEAD	
L3102	NQR0269-017X	FERRITE BEAD	
L3103	NQR0384-003X	COIL	
L3104	NQR0384-003X	COIL	
L3201	NQR0006-001X	FERRITE BEAD	
L3202	NQR0129-002X	FERRITE BEAD	
L3203	NQR0129-002X	FERRITE BEAD	
L3301	NQR0006-001X	FERRITE BEAD	
L3302	NQL04DK-100X	COIL	10μH

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
L3303	NQL04DK-100X	COIL	10μH
L3304	NQR0006-001X	FERRITE BEAD	
L3501	NQL04DK-220X	COIL	22μH
L3502	NQL04DK-220X	COIL	22μH
L3503	NQL302N-100X	COIL	10μH
L3504	NQL302N-100X	COIL	10μH
L3505	NQL38DK-100X	COIL	10μH
L3551	NQR0006-001X	FERRITE BEAD	
L3701	NQL315K-100X	COIL	10μH
L4201	NQR0129-002X	FERRITE BEAD	
L4301	NQR0129-002X	FERRITE BEAD	
L4302	NQR0129-002X	FERRITE BEAD	
L4303	NQL315K-100X	COIL	10μH
L4304	NQL315K-220X	COIL	22μH
L4305	NQR0129-002X	FERRITE BEAD	
L4306	NQR0129-002X	FERRITE BEAD	
L4307	NQL315K-100X	COIL	10μH
L4802	NQL302N-100X	COIL	10μH
L4851	NQR0129-002X	FERRITE BEAD	
L4852	NQL315K-100X	COIL	10μH
L4853	NQL315K-100X	COIL	10μH
L5501	NQL315K-100X	COIL	10μH
L5502	NQR0129-002X	FERRITE BEAD	
L5503	NQR0129-002X	FERRITE BEAD	
L5504	NQR0129-002X	FERRITE BEAD	
L5505	NQL315K-100X	COIL	10μH
L5506	NQL315K-100X	COIL	10μH
L6101	NQLZ011-4R7X	COIL	4.7μH
L6102	NQLZ011-4R7X	COIL	4.7μH
L6201	NQLZ011-390X	COIL	39μH
L6202	NQLZ011-390X	COIL	39μH
L6203	NQLZ011-390X	COIL	39μH
L6204	NQL144K-220X	COIL	22μH
L6205	NQL35BK-100X	COIL	10μH
L6206	NQLZ011-470X	COIL	47μH
L6207	NQLZ011-470X	COIL	47μH
L6208	NQLZ011-221X	COIL	220μH
L6209	NQL144K-221X	COIL	220μH
L6210	NQL144K-220X	COIL	220μH
L6701	NQLZ007-100X	COIL	10μH
X1001	NAX0474-001X	C OSCILLATOR	
X1002	NAX0325-001X	CRYSTAL RESONATOR	
X3001	NAX0480-001X	CRYSTAL RESONATOR	
X3301	NAX0296-001X	C OSCILLATOR	
X5501	NAX0356-001X	CXO	
WR1	WJT0045-001A	E-CARD WIRE,CN103-JACK CN502	
WR2	WJJ0206-001A	E-SI C WIRE C-C,CN104-REAR UNIT	
J101	NNZ0041-001X	D CONNECTOR	
CN101	QGF0508F1-40X	FPC CONNECTOR	
CN102	QGA1002F1-09X	CONNECTOR	
CN103	QGF0505F2-14X	FPC CONNECTOR	
CN104	QGA1002C1-10X	CONNECTOR	
CN105	QGB0801K2-20X	CONNECTOR	
CN106	QGA1201F2-03X	CONNECTOR	
CN107	QGF0507F3-20X	FFC/FPC CONNECTOR	
CN108	QGF0507F3-24X	FFC/FPC CONNECTOR	
CN109	QGF0507F3-15X	FFC/FPC CONNECTOR	
CN110	QGF0513F1-08X	FPC CONNECTOR	
CN111	QGF0503C1-06V	FFC/FPC CONNECTOR	
CN112	QGF0505F2-18X	FPC CONNECTOR	
CN113	QGF0508F1-34X	FPC CONNECTOR	
⚠ F6101	NMFZ007-2R0X-K	FUSE	T2.0A
OT1	LY43017-001A	SHIELD SHEET	
SD1	LY32080-001A	SHIELD CASE	

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MONITOR BOARD ASSEMBLY <02>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
PW1	YB10324M1-03	MONITOR BOARD ASSY,C	
	YB10326I-01	MONITOR BOARD ASSY,A,B	
IC7101	MM1385EN	IC	
IC7601	AN2540FHQ	IC	
IC7602	BA15532F	IC	
IC7603	X25057M8-2.7-X	IC	
IC7604	SN74LV08APW	IC	
Q7101	2SA1774/QR/-X	TRANSISTOR,A,B	
	or 2SA1832/YG/-X	TRANSISTOR,A,B	
Q7601	2SC4617/QR/-X	TRANSISTOR	
	or 2SC4738/YG/-X	TRANSISTOR	
Q7602	2SA1774/QR/-X	TRANSISTOR	
	or 2SA1832/YG/-X	TRANSISTOR	
Q7603	2SC4617/QR/-X	TRANSISTOR	
	or 2SC4738/YG/-X	TRANSISTOR	
Q7604	2SA1774/QR/-X	TRANSISTOR	
	or 2SA1832/YG/-X	TRANSISTOR	
Q7605	DTA144EE	DIGI TRANSISTOR,C	
	or RN2104	DIGI TRANSISTOR,C	
	or UN9113J	DIGI TRANSISTOR,C	
Q7606	DTC144EE	DIGI TRANSISTOR,C	
	or RN1104	DIGI TRANSISTOR,C	
	or UN9213J	DIGI TRANSISTOR,C	
Q7607	UMZ1N	PAIR TRANSISTOR,C	
Q7608	DTC144EE	DIGI TRANSISTOR	
	or RN1104	DIGI TRANSISTOR	
	or UN9213J	DIGI TRANSISTOR	
Q7609	DTC144EE	DIGI TRANSISTOR	
	or RN1104	DIGI TRANSISTOR	
	or UN9213J	DIGI TRANSISTOR	
Q7610	DTA144EE	DIGI TRANSISTOR	
	or UN9113J	DIGI TRANSISTOR	
	or RN2104	DIGI TRANSISTOR	
D1	SML-110LT-X	LE DIODE	
D7601	RB471E	SB DIODE	
R1	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R2	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R3	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R4	NRSA63J-152X	MG RESISTOR	1.5kΩ,1/16W
R5	NRSA63J-182X	MG RESISTOR	1.8kΩ,1/16W
R6	NRSA63J-272X	MG RESISTOR	2.7kΩ,1/16W
R7101	NRSA63J-562X	MG RESISTOR,A,B	5.6kΩ,1/16W
R7102	NRSA63J-562X	MG RESISTOR,A,B	5.6kΩ,1/16W
R7103	NRSA63J-103X	MG RESISTOR,A,B	10kΩ,1/16W
R7104	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R7110	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7111	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7112	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7113	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7114	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7115	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7601	NRVA63D-622X	CMF RESISTOR	6.2kΩ,1/16W
R7602	NRSA63J-153X	MG RESISTOR	15kΩ,1/16W
R7603	NRSA63J-683X	MG RESISTOR	68kΩ,1/16W
R7608	NRSA63J-153X	MG RESISTOR	15kΩ,1/16W
R7609	NRVA63D-223X	CMF RESISTOR	22kΩ,1/16W
R7610	NRVA63D-433X	CMF RESISTOR	43kΩ,1/16W
R7611	NRVA63D-821X	CMF RESISTOR	820Ω,1/16W
R7612	NRVA63D-682X	CMF RESISTOR,C	6.8kΩ,1/16W
	NRVA63D-223X	CMF RESISTOR,A,B	22kΩ,1/16W
R7613	NRVA63D-223X	CMF RESISTOR	22kΩ,1/16W
R7614	NRVA63D-223X	CMF RESISTOR	22kΩ,1/16W
R7615	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
R7616	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
R7617	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
R7618	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
R7621	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7622	NRSA63J-223X	MG RESISTOR,C	22kΩ,1/16W
R7623	NRSA63J-223X	MG RESISTOR,C	22kΩ,1/16W
R7624	NRVA63D-223X	CMF RESISTOR,C	22kΩ,1/16W
R7625	NRVA63D-223X	CMF RESISTOR,C	22kΩ,1/16W
R7626	NRVA63D-183X	CMF RESISTOR,C	18kΩ,1/16W
R7627	NRVA63D-334X	CMF RESISTOR,C	330kΩ,1/16W
R7628	NRSA63J-224X	MG RESISTOR,C	220kΩ,1/16W
R7629	NRSA63J-393X	MG RESISTOR,C	39kΩ,1/16W
R7630	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
R7631	NRSA63J-335X	MG RESISTOR	3.3MΩ,1/16W
R7633	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R7634	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R7640	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
R7641	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
R7642	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
R7643	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
R7644	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
R7645	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
R7646	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
C1	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7101	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C7102	NCB31HK-103X	CAPACITOR	0.01μF,50V
C7103	NBE20JM-475X	T CAPACITOR	4.7μF,6.3V
C7601	NCB21CK-105X	CAPACITOR	1μF,16V
C7602	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7603	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7604	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7605	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7606	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7607	NBP41CM-106X	T CAPACITOR	10μF,16V
C7608	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7609	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7610	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7611	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7612	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7613	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7614	NCB31HK-152X	CAPACITOR	0.0015μF,50V
C7615	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7616	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7617	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7618	NCB10JK-106X	CAPACITOR	10μF,6.3V
C7619	NCB10JK-106X	CAPACITOR	10μF,6.3V
C7620	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7621	NCB21CK-105X	CAPACITOR	1μF,16V
C7622	NCB21CK-105X	CAPACITOR	1μF,16V
C7623	NBE21AM-106X	T CAPACITOR	10μF,10V
C7624	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7626	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7627	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C7628	NBP41EM-475X	T CAPACITOR	4.7μF,25V
C7629	NBP21CM-335X	T CAPACITOR	3.3μF,16V
C7630	NBP41EM-475X	T CAPACITOR	4.7μF,25V
C7631	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7632	NBP41EM-475X	T CAPACITOR	4.7μF,25V
C7633	NCB31EK-103X	CAPACITOR	0.01μF,25V

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	C7634	NCB10JK-106X	CAPACITOR	10μF,6.3V
	C7635	NCB31EK-103X	CAPACITOR	0.01μF,25V
	C7636	NCF31CZ-104X	CAPACITOR,C	0.1μF,16V
	C7637	NCB31EK-103X	CAPACITOR	0.01μF,25V
	C7638	NCB21AK-225X	CAPACITOR,C	2.2μF,10V
	C7639	NBE21AM-106X	T CAPACITOR,C	10μF,10V
	C7640	NCB31EK-103X	CAPACITOR	0.01μF,25V
	C7642	NCF31CZ-104X	CAPACITOR	0.1μF,16V
	L7601	NQL315K-100X	COIL	10μH
	L7602	NQL315K-100X	COIL	10μH
	L7604	NQL315K-100X	COIL	10μH
	L7605	NQL315K-100X	COIL,A,B	10μH
	L7606	NQL315K-100X	COIL,C	10μH
	L7607	NQL315K-100X	COIL	10μH
	SW1	NSW0092-001X	SLIDE SWITCH,LIGHT SW	
	SW2	NSW0008-001X	TACT SWITCH,STOP	
	SW3	NSW0008-001X	TACT SWITCH,REW	
	SW4	NSW0008-001X	TACT SWITCH,FF	
	SW5	NSW0008-001X	TACT SWITCH,PLAY/PAUSE	
	SW7601	NSW0105-001X	DETECT SWITCH,OPEN	
⚠	BT1	QAB0025-001	LI BATTERY	
	CN761	QGF0508F1-40X	FPC CONNECTOR	
	CN763	QGF0507F3-20X	FFC/FPC CONNECTOR	
	CN764	QGF0305F1-33X	FPC CONNECTOR	
	CN765	QGA1201F2-02X	CONNECTOR	
	OT1	LY43043-001B	SHIELD SHEET	
	OT2	LY43119-001A	SHIELD SHEET,A,B	

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LCD BL BOARD ASSEMBLY <03>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PW2	YB10324A2-02	LCD BL BOARD ASSY,C	
		YB10325B	LCD BL BOARD ASSY,A,B	
	IC751	MIP805	IC,C	
	Q7501	2SC3647/ST/-X	POW TRANSISTOR	
	Q7502	2SC3647/ST/-X	POW TRANSISTOR	
	Q7503	DTA144EE	DIGI TRANSISTOR	
		or RN2104	DIGI TRANSISTOR	
		or UN9113J	DIGI TRANSISTOR	
	Q7504	2SC4617/QR/-X	TRANSISTOR	
		or 2SC4738/YG/-X	TRANSISTOR	
	D751	1SS376	DIODE,C	
	R751	NRSA63J-104X	MG RESISTOR,C	100kΩ,1/16W
	R7501	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R7502	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R7503	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R7506	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
	R7507	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
	C751	NBE20JM-106X	T CAPACITOR,C	10μF,6.3V
	C752	NBE20JM-106X	T CAPACITOR,C	10μF,6.3V
	C753	NCB31HK-222X	CAPACITOR,C	0.0022μF,50V
	C754	NCB31HK-222X	CAPACITOR,C	0.0022μF,50V
	C7501	NCZ1016-120X	CAPACITOR	12pF
	C7503	NFV41HJ-223X	MPPS CAPACITOR	0.022μF,50V
	C7504	NCB31EK-103X	CAPACITOR	0.01μF,25V
	C7505	NBE20JM-226X	T CAPACITOR	22μF,6.3V
	L751	NQLZ011-681X	COIL,C	680μH
	L752	NQL315K-100X	COIL,C	10μH
	L7501	NQLZ010-680X	COIL	68μH
	L7502	NQLZ010-220X	COIL	22μH
	T7501	NQS0048-001X	SW TRANSF	
	CN751	QGF0506F2-32X	FPC CONNECTOR	
	CN752	QGF0505F1-24X	FPC CONNECTOR	
	CN753	QGA5002F1-02X	CONNECTOR	
	CN754	QGF0505F2-06X	FPC CONNECTOR,C	
⚠	F751	NMFZ007-R20X-K	FUSE,C	T0.2A
⚠	F7501	NMFZ009-R375XJ1	FUSE	T0.37A
	OT1	LY41726-001A	PLATE(EARTH)	

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CCD BOARD ASSEMBLY <04>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PW	YB10316A-01	CCD BOARD ASSY	
	Q5001	2SC3931/CD/-X	TRANSISTOR	
	R5001	NRSA02J-472X	MG RESISTOR	4.7kΩ,1/10W
	R5002	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
	R5003	NRSA02J-104X	MG RESISTOR	100kΩ,1/10W
	R5004	NRS181J-0R0X	MG RESISTOR	0Ω,1/8W
	R5006	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
	R5007	NRS181J-0R0X	MG RESISTOR	0Ω,1/8W
	C5001	NCB21CK-104X	CAPACITOR	0.1μF,16V
	C5002	NBP41DM-106X	T CAPACITOR	10μF,20V
	C5003	NCB21CK-104X	CAPACITOR	0.1μF,16V
	C5004	NBE21AM-106X	T CAPACITOR	10μF,10V
	C5005	NCB11EK-104X	CAPACITOR	0.1μF,25V
	C5006	NCB21CK-104X	CAPACITOR	0.1μF,16V
	C5007	NCB21HK-222X	CAPACITOR	0.0022μF,50V
	C5011	NCB21CK-105X	CAPACITOR	1μF,16V
	L5001	NQL315K-100X	COIL	10μH

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JUNCTION BOARD ASSEMBLY <05>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PW2	YB10314A2-01	JUNCTION BOARD ASSY	
	D571	SML-010MT-X	LE DIODE	
	SW571	NSW0120-002X	PUSH SWITCH,EJECT SW	
	CN571	QGF0508F1-34X	FPC CONNECTOR	
	CN572	QGF0507F3-15X	FFC/FPC CONNECTOR	
	CN573	QGF0505F2-11X	FPC CONNECTOR	
	CN574	QGF0505F2-06X	FPC CONNECTOR	

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JACK BOARD ASSEMBLY <06>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PW1	YB10314A1-03	JACK BOARD ASSY	
	IC501	BA10358F-XE	IC	
	IC502	RS-171-X	IC(PHOTO SENSOR)	
	Q501	RPM-22PB	PHOTO TRANSISTOR	
	D501	MA8068	ZENER DIODE	
	D502	MA8068	ZENER DIODE	
	D504	MA8068	ZENER DIODE	
	D505	MA8068	ZENER DIODE	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
D506	EMZ6.8N	ZENER DIODE	
D507	EMZ6.8N	ZENER DIODE	
D508	EMZ6.8N	ZENER DIODE	
R501	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R502	NRSA63J-684X	MG RESISTOR	680kΩ,1/16W
R503	NRSA63J-182X	MG RESISTOR	1.8kΩ,1/16W
R504	NRSA63J-222X	MG RESISTOR	2.2kΩ,1/16W
R505	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R506	NRSA63J-824X	MG RESISTOR	820kΩ,1/16W
R507	NRSA63J-104X	MG RESISTOR	100kΩ,1/16W
R508	NRSA63J-683X	MG RESISTOR	68kΩ,1/16W
R509	NRSA63J-822X	MG RESISTOR	8.2kΩ,1/16W
R510	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R511	NRSA63J-302X	MG RESISTOR	3kΩ,1/16W
R512	NRSA63J-470X	MG RESISTOR	47Ω,1/16W
R513	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R514	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R515	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R516	NRSA63J-221X	MG RESISTOR	220Ω,1/16W
R517	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
R518	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R519	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
R520	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
R524	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R525	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R526	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R527	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
C501	NBE21AM-335X	T CAPACITOR	3.3μF,10V
C502	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C503	NCB31EK-153X	CAPACITOR	0.015μF,25V
C504	NCB31EK-153X	CAPACITOR	0.015μF,25V
C506	NBE21AM-106X	T CAPACITOR	10μF,10V
C509	NBE20JM-226X	T CAPACITOR	22μF,6.3V
C514	NCB31HK-103X	CAPACITOR	0.01μF,50V
C515	NCB31HK-103X	CAPACITOR	0.01μF,50V
L501	NQR0251-004X	FERRITE BEAD	
L502	NQR0251-004X	FERRITE BEAD	
L503	NQR0251-004X	FERRITE BEAD	
HD1	LY32086-001B	HOLDER(J.PWB)	
WR1	WJJ0207-002A	E-SI C WIRE C-C,CN501-MAIN CN102	
J501	QNS0078-001	3.5 JACK	
J502	PEMC1203	MINI JACK	
J503	QND0004-001	S JACK	
J504	QNS0152-001	2.5 JACK	
TL501	YQ43810-1-1	CONTACT(LIGHT)	
TL502	YQ43810-1-1	CONTACT(LIGHT)	
CN501	QGA1002F1-09X	CONNECTOR	
CN502	QGF0507F3-14X	FFC/FPC CONNECTOR	
OT1	LY30018-023A	SPECIAL SCREW,X4	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION

JVC

VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

S40894

JVC

GR-DVL150EG/EK, DVL450EG

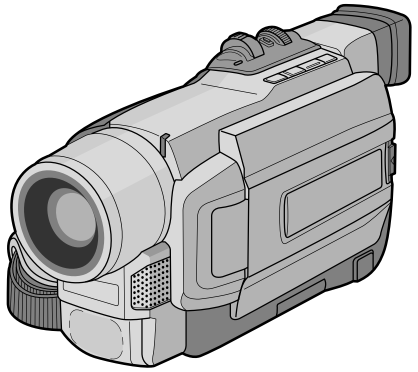
No. 86613

JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DVL150EG/EK, DVL450EG



Mini DV PAL

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DVL150/157/355/357/450/555/557)*

Camcorder

For General

Power supply	: DC 11.0 V ⎓ (Using AC Adapter) DC 7.2 V ⎓ (Using battery pack)
Power consumption	
LCD monitor off, viewfinder on	: Approx. 4.3 W
LCD monitor on, viewfinder off	: Approx. 5.3 W
Video light	: Approx. 3.5 W
Dimensions (W x H x D)	: 83 mm x 97 mm x 188 mm (3-5/16" x 3-7/8" x 7-7/16") (with the LCD monitor closed and the viewfinder pushed down)
Weight	: Approx. 610 g (1.4 lbs) (GR-DVL915) Approx. 600 g (1.4 lbs) (GR-DVL815) Approx. 590 g (1.3 lbs) (GR-DVL510/DVL310)
Operating temperature	: 0°C to 40°C (32°F to 104°F)
Operating humidity	: 35% to 80%
Storage temperature	: –20°C to 50°C (–4°F to 122°F)
Pickup	: 1/4" CCD
Lens	: F 1.8, f = 3.6 mm to 36 mm, 10:1 power zoom lens
Filter diameter	: ø37 mm
LCD monitor	: 3.5" diagonally measured, LCD panel/TFT active matrix system (GR-DVL915) 3" diagonally measured, LCD panel/TFT active matrix system (GR-DVL815) 2.5" diagonally measured, LCD panel/TFT active matrix system (GR-DVL510/DVL310)
Viewfinder	: Electronic viewfinder with 0.44" color LCD (GR-DVL915/DVL815) Electronic viewfinder with 0.24" black/white LCD (GR-DVL510/DVL310)
Speaker	: Monaural

For Digital Video Camera

Format	: DV format (SD mode)
Signal format	: NTSC standard
Recording/Playback format	: Video: Digital component recording : Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette	: Mini DV cassette
Tape speed	: SP: 18.8 mm/s LP: 12.5 mm/s
Maximum recording time (using 80 min. cassette)	: SP: 80 min. LP: 120 min.

For Digital Still Camera (GR-DVL915/DVL815/DVL510 only)

Storage media	: SD Memory Card/MultiMediaCard
Compression system	: JPEG (compatible)
File size	: VGA (640 x 480 pixels)
Picture quality	: 2 modes (FINE/STANDARD)
Approximate number of storable images	
with memory card [8 MB] (provided with GR-DVL510 only)	
FINE	: 100
STANDARD	: 200
with memory card [16 MB] (provided with GR-DVL915/DVL815 only)	
FINE	: 200
STANDARD	: 400
with memory card [32 MB] (optional)	
FINE	: 400
STANDARD	: 800
with memory card [64 MB] (optional)	
FINE	: 800
STANDARD	: 1600

For Connectors

S-Video	
Output	: Y : 1 V (p-p), 75 Ω, analog C : 0.29 V (p-p), 75 Ω, analog
Input (GR-DVL915 only)	: Y : 0.8 V (p-p) – 1.2 V (p-p), 75 Ω, analog C : 0.2 V (p-p) – 0.4 V (p-p), 75 Ω, analog
AV	
Video output	: 1 V (p-p), 75 Ω, analog
Video input (GR-DVL915 only)	: 0.8 V (p-p) – 1.2 V (p-p), 75 Ω, analog
Audio output	: 300 mV (rms), 1 kΩ, analog, stereo
Audio input (GR-DVL915 only)	: 300 mV (rms), 50 kΩ, analog, stereo
DV	
Output	: 4-pin, IEEE 1394 compliant
Input	: 4-pin, IEEE 1394 compliant
USB (GR-DVL915/DVL815/DVL510 only)	: 5-pin
PC (DIGITAL PHOTO) (GR-DVL310 only)	: ø2.5 mm, 3-pole
EDIT (GR-DVL915/DVL815/DVL510 only)	: ø3.5 mm, 2-pole
JLIP (GR-DVL310 only)	: ø3.5 mm, 4-pole

AC adapter AP-V10U

Power requirement	
U.S.A. and Canada	: AC 120 V ∿, 60 Hz
Other countries	: AC 110 V to 240 V ∿, 50 Hz/60 Hz
Output	: DC 11 V ⎓ , 1 A
Dimensions (W x H x D)	: 59 mm x 31 mm x 84 mm (2-3/8" x 1-1/4" x 3-5/16")
Weight	: Approx. 130 g (0.29 lbs.)

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

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The following table lists the differing points between Models GR-DVL150EG/EK and GR-DVL450EG in this series.

	GR-DVL150EG	GR-DVL150EK	GR-DVL450EG
VIEW FINDER	B/W	B/W	COLOR
LCD MONITOR	2.5”	2.5”	3.5”
CD ROM	OPTIONAL	OPTIONAL	PROVIDE
AC ADAPTER	AP-V10EG	AP-V10EK	AP-V10EG
PC CONNECTION CABLE	OPTIONAL	OPTIONAL	PROVIDE

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded (▨) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers
   4) Insulation sheets for transistors
   5) Barrier

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

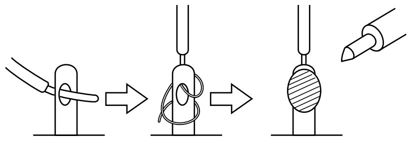


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

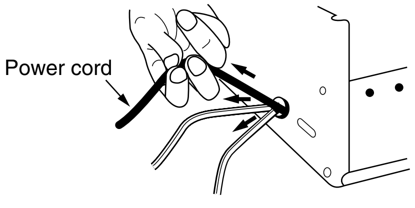


Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission.
    Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits.
    Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) Connector part number : E03830-001
    2) Required tool : Connector crimping tool of the proper type which will not damage insulated parts.
    3) Replacement procedure
    (1) Remove the old connector by cutting the wires at a point close to the connector.
    Important : Do not reuse a connector (discard it).

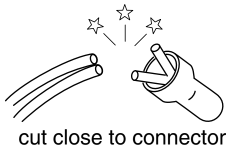


Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

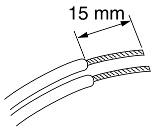


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

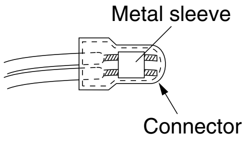


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

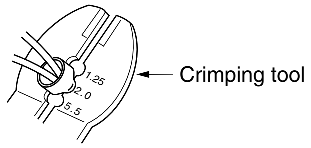


Fig.6

(5) Check the four points noted in Fig.7.

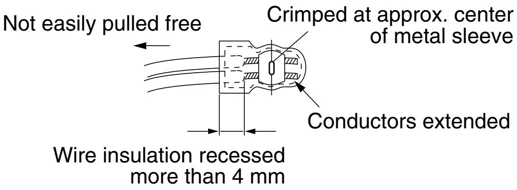

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. **Insulation resistance test**
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. **Dielectric strength test**
Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. **Clearance distance**
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

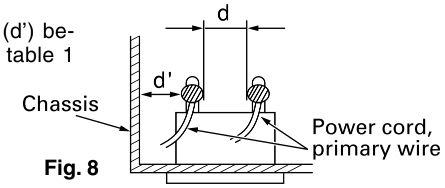


Fig. 8

4. **Leakage current test**
Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
Measuring Method : (Power ON)
Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

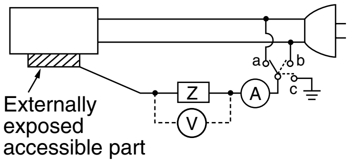


Fig. 9

5. **Grounding (Class 1 model only)**
Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).
Measuring Method:
Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

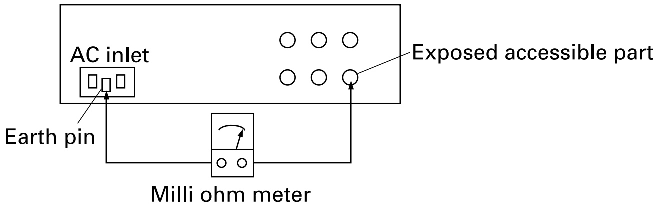


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 miute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	1 MΩ ≦ R ≦ 12 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

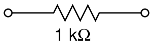
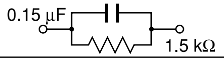
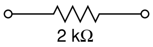
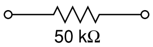
AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	 1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	 0.15 μF 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	 2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		 50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1
DISASSEMBLY

1.1 BEFORE ASSEMBLY AND DISASSEMBLY

1.1.1 Precautions

1. Be sure to remove the power supply unit prior to mounting and soldering of parts.
2. When removing a component part that needs to disconnect the connector and to remove the screw for removing itself, first disconnect the connecting wire from the connector and then remove the screw beforehand.
3. When connecting and disconnecting the connectors, be careful not to damage the wire.
4. Carefully remove and handle the part to which some spacer or shield is attached for reinforcement or insulation.
5. When replacing chip parts (especially IC parts), desolder completely first (to prevent peeling of the pattern).
6. Tighten screws properly during the procedures.
   Unless specified otherwise, tighten screws at a torque of 0.069N•m(0.7kgf•cm).

1.1.2 Assembly and disassembly

STEP No.	PART	Fig.No.	POINT	NOTE
①	COVER(ZOOM) ASSY	Fig.1-3-1	(S①a),(S①b),2(L①a),2(L①b)	-
②	UPPER CASE ASSY (Inc.E.VF UNIT (B/W,COLOR), SPEAKER/ MONITOR)	Fig.1-3-2	(S②a),(S②b),(L②),(S②c) 2(S②a),(S②d),4(S②a) CAP(DC JACK) ☆CN(2a)	NOTE②

(1) (2) (3) (4) (5)

(1) Indicate the disassembly steps. When assembling, perform in the reverse order of these steps. This number corresponds to the number in the disassembly diagram.
(2) Indicates the name of disassembly/assembly parts.
(3) Indicates the number in the disassembly diagram.
(4) Indicates parts and points such as screws, washers, springs which must be removed during disassembly/assembly.

Symbol	Name, Point
S	Screw
L	Lock, Pawl, Hook
SD	Soldering
☆(Others)	Connector, Cover, Bracket, etc.

(Example)
- 2 (S1) : Remove the two screws (S1) for removing the part 1.
- CN(2a): Disconnect the connector (2a).
- SD1 : Unsolder at the point SD1.

(5) Precautions on disassembly/assembly.

1.1.3 Destination of connectors

Note: *Three kinds of double-arrows in connection tables respectively show kinds of connector/wires.*
↔ : Wire
⇔ : Flat wire
⬌ : Board to Board connector

[Example]

Note: *Remove the parts marked in* ▨ .

CONN. No.	CONNECTOR			Pin No.
(2a)	MAIN CN101	⇔	MONITOR CN761	40

1.1.4 Disconnection of Connectors (Wires)

Connector
Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.

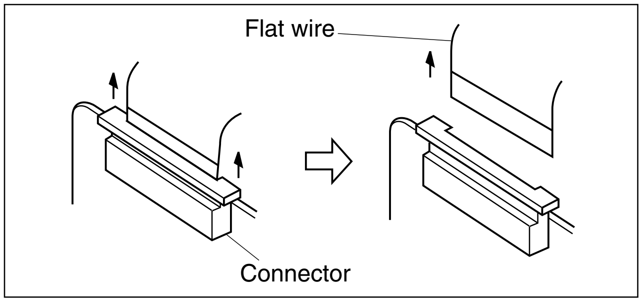


Fig. 1-1-1 Connector 1

Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.

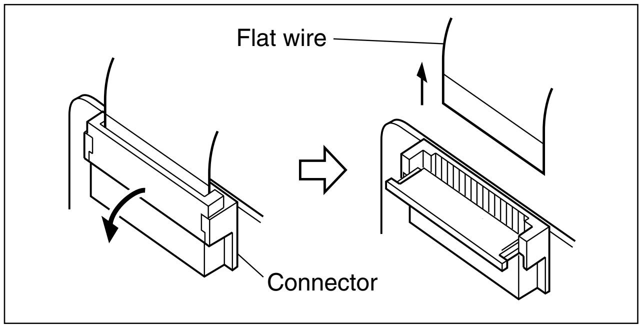


Fig. 1-1-2 Connector 2

B-B connector
Pull the board by both the sides in the direction of the arrow for disconnecting the B-B connector.

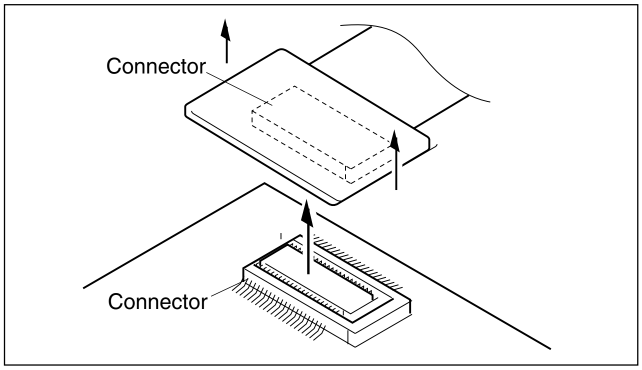


Fig. 1-1-3 Connector 3

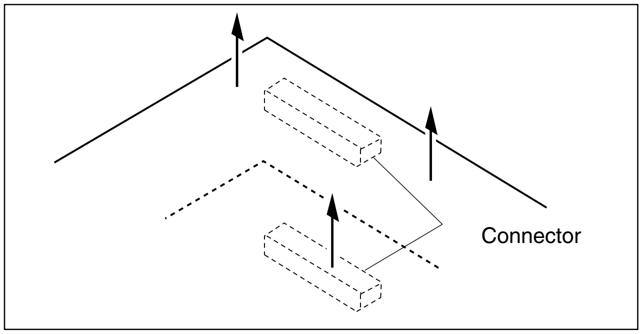


Fig. 1-1-4 Connector 4

1.2 JIGS AND TOOLS REQUIRED FOR DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

1.2.1 Tools required for adjustments

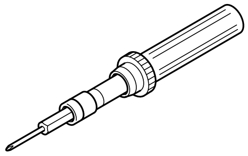
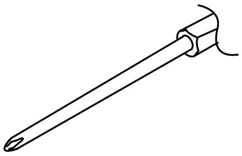
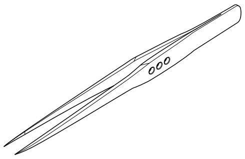
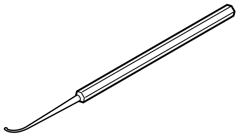
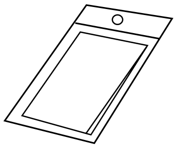
1 Torque Driver YTU94088	2 Bit YTU94088-003
	
3 Tweezers P-895	4 Chip IC Replacement Jig PTS40844-2
	
5 Cleaning Cloth KSMM-01	
	

Table 1-2-1

1. **Torque driver**
   Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
2. **Bit**
   This bit is slightly longer than those set in conventional torque drivers.
3. **Tweezers**
   To be used for removing and installing parts and wires.
4. **Chip IC replacement jig**
   To be used for adjustment of the camera system.
5. **Cleaning cloth**
   Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

1.3 DISASSEMBLY/ASSEMBLY OF CABINET PARTS AND BOARD ASSEMBLY

1.3.1 Disassembly flow chart

This flowchart indicates the disassembly step for the cabinet parts and board assembly in order to gain access to item(s) to be serviced. When reassembling, perform the step(s) in reverse order.

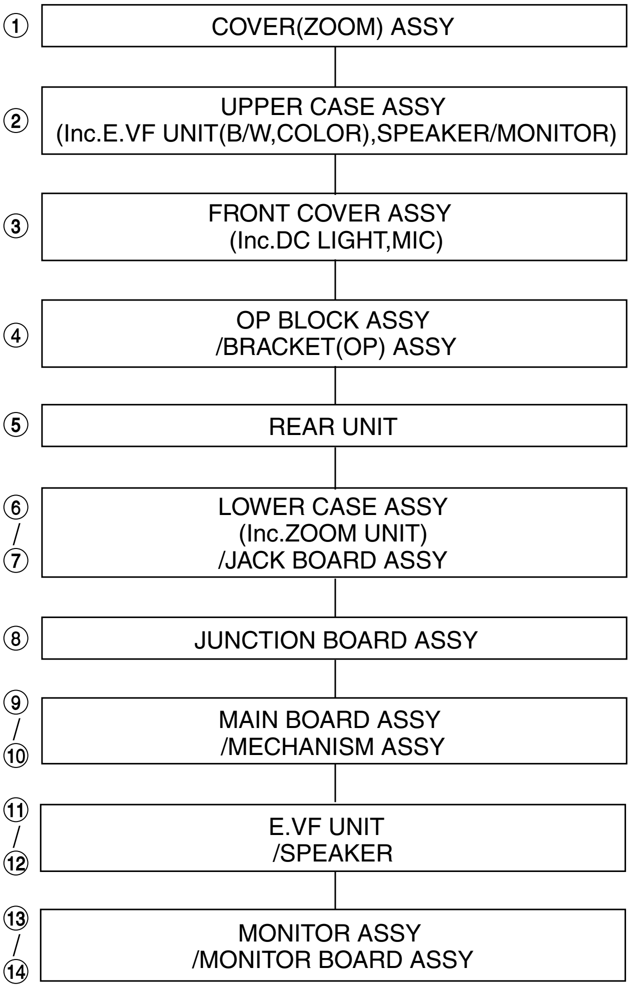

① COVER(ZOOM) ASSY
② UPPER CASE ASSY (Inc.E.VF UNIT(B/W,COLOR),SPEAKER/MONITOR)
③ FRONT COVER ASSY (Inc.DC LIGHT,MIC)
④ OP BLOCK ASSY /BRACKET(OP) ASSY
⑤ REAR UNIT
⑥/⑦ LOWER CASE ASSY (Inc.ZOOM UNIT) /JACK BOARD ASSY
⑧ JUNCTION BOARD ASSY
⑨/⑩ MAIN BOARD ASSY /MECHANISM ASSY
⑪/⑫ E.VF UNIT /SPEAKER
⑬/⑭ MONITOR ASSY /MONITOR BOARD ASSY

Table 1-3-1

1.3.2 Disassembly method

STEP No.	PART	Fig.No.	POINT	NOTE
①	COVER(ZOOM) ASSY	Fig.1-3-1	(S①a),(S①b),2(L①a),2(L①b)	-
②	UPPER CASE ASSY (Inc.E.VF UNIT (B/W,COLOR), SPEAKER/ MONITOR)	Fig.1-3-2	(S②a),(S②b),(L②),(S②c) 2(S②a),(S②d),4(S②a) CAP(DC JACK) ☆CN(2a)	NOTE②
③	FRONT COVER ASSY (Inc.DC LIGHT,MIC)	Fig.1-3-3	COVER(JACK),3(S③),(L③a) (L③b),☆CN(3a)	NOTE③a NOTE③b
④	OP BLOCK ASSY /BRACKET(OP) ASSY	Fig.1-3-4	☆CN(4a),(4b) 2(S④),2(L④)	-
⑤	REAR UNIT	Fig.1-3-5	☆CN(5a) 4(S⑤)	NOTE⑤
⑥ /	LOWER CASE ASSY (Inc.ZOOMUNIT)	Fig.1-3-6	☆CN(6a),(6b),(6c) (S⑥a),2(S⑥b),2(S⑥c) (L⑥a),(L⑥b)	-
⑦	JACK BOARD ASSY		(S⑦)	NOTE⑦
⑧	JUNCTION BOARD ASSY	Fig.1-3-7	☆CN(8a),(8b),(8c) 2(S⑧),☆CN(8d)	NOTE⑧a NOTE⑧b
⑨ / ⑩	MAIN BOARD ASSY /MECHANISM ASSY	Fig.1-3-8	(S⑨a),(L⑨a),SHIELD PLATE ☆CN(9a),(9b),(9c) 2(S⑨b),(L⑨b),(L⑨c)	-
⑪ /	E.VF UNIT	Fig.1-3-9	☆CN (11a) ,(S⑪a),(S⑪b) (L⑪)	NOTE⑪a NOTE⑪b
⑫	SPEAKER		(S⑫),PLATE(SPK) ☆CN (12a)	-
⑬ /	MONITOR ASSY	Fig.1-3-10	2(S⑬a),COVER(HINGE) ☆CN (13a), 2(S⑬b)	NOTE⑬
⑭	MONITOR BOARD ASSY		3(S⑭),(L⑭)	NOTE⑭a NOTE⑭b

Table 1-3-2

Note: *Remove the parts marked in* ▨ *.*

CONN. No.	CONNECTOR					Pin No.
(2a)	MAIN	CN101	⇔	MONITOR	CN761	40
(3a)	MAIN	CN106	↔	MIC	—	3
(4a)	MAIN	CN107	⇔	CCD	—	20
(4b)	MAIN	CN108	⇔	OP BLOCK ASSY	—	24
(5a)	MAIN	CN104	↔	REAR UNIT	CN1	10
(6a)	MAIN	CN109	⇔	ZOOM UNIT	—	15
(6b)	MAIN	CN102	↔	JACK	CN501	9
(6c)	JACK	CN502	⇔	MAIN	CN103	14
(8a)	JUNCTION	CN571	⇔	MAIN	CN113	34
(8b)	JUNCTION	CN574	⇔	LOADING MOTOR	—	6
(8c)	JUNCTION	CN573	⇔	DRUM MOTOR	—	11
(8d)	JUNCTION	CN572	⇔	SENSOR	—	15
(9a)	MAIN	CN110	⇔	HEAD	—	8
(9b)	MAIN	CN112	⇔	CAPSTAN MOTOR	—	18
(9c)	MAIN	CN111	⇔	ROTARY ENCODER	—	6
(11a)	MONITOR	CN763	⇔	E.VF UNIT (C_B/W)	CN721/CN751	20
(12a)	MONITOR	CN765	↔	SPEAKER	—	2
(13a)	MONITOR	CN764	⇔	LCD BL	CN751	33/32

Table 1-3-3

NOTE ②: *Remove the CAP (DC JACK) before removing these parts .*

NOTE ③a: *As it is difficult to remove (L③b), remove the F. COVER ASSY by lowering it.*

NOTE ③b: *Be careful not to damage any parts.*

Particularly, take care not to scratch or stain the lenses.

NOTE ⑤: *As screw No. 19 is hidden behind the cassette cover, open the cassette cover to enable removal of the screw.*

NOTE ⑦: *As screw No. 27 is hidden behind the cassette cover, open it before removing the screw.*

NOTE ⑧a: *As the CN572 is located at the back of the assembly, unplug the three connectors and remove the screws before disconnecting the CN572.*

NOTE ⑧b: *Be careful not to damage any of the switches.*

NOTE ⑪a: *To remove the unit, unlock the connector and pull out the unit together with the FPC.*

NOTE ⑪b: *When removing the unit, insert the FPC into the gap.*

NOTE ⑬: *When reassembling the MONITOR ASSY, be careful not to damage any of the parts.*

NOTE ⑭a: *Be careful not to damage any of the parts.*

NOTE ⑭b: *Be careful not to damage any of the parts.*
SW KNOB(DC LIGHT: Gray)

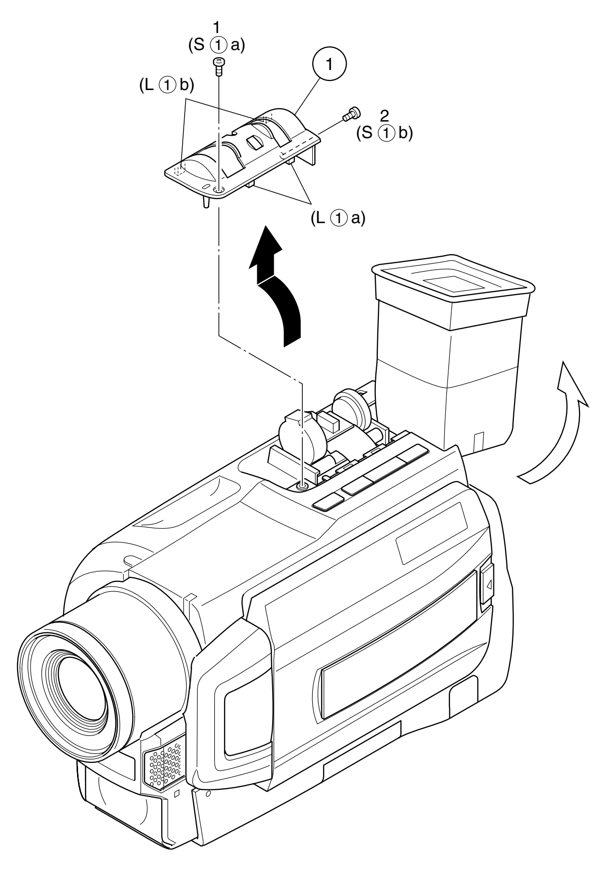


Fig. 1-3-1

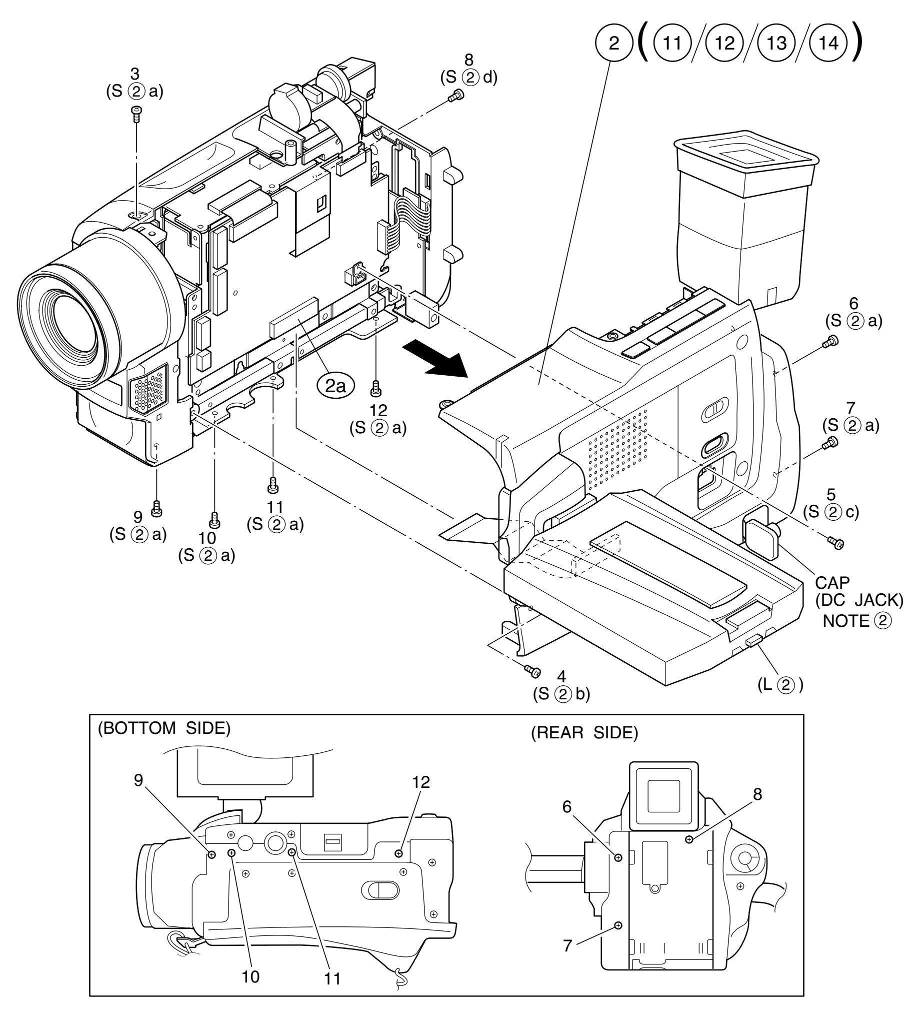

②(⑪/⑫/⑬/⑭)
3
(S②a)
8
(S②d)
6
(S②a)
2a
12
(S②a)
7
(S②a)
5
(S②c)
9
(S②a)
11
(S②a)
10
(S②a)
CAP
(DC JACK)
NOTE②
4
(S②b)
(L②)
(BOTTOM SIDE)
9
12
10
11
(REAR SIDE)
6
8
7

Fig. 1-3-2

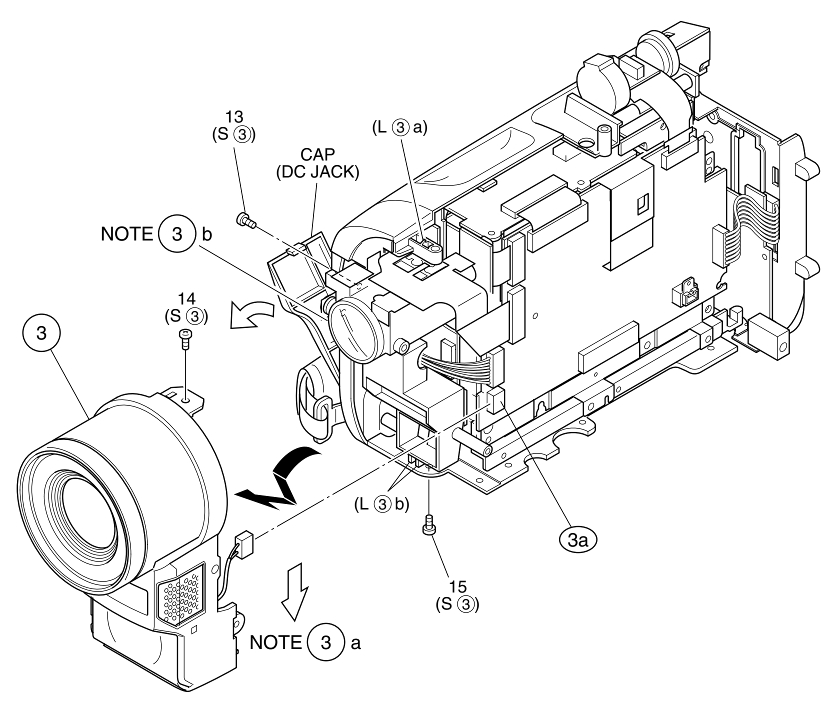

13
(S③)
(L③a)
CAP
(DC JACK)
NOTE ③ b
14
(S③)
3
(L③b)
3a
15
(S③)
NOTE ③ a

Fig. 1-3-3

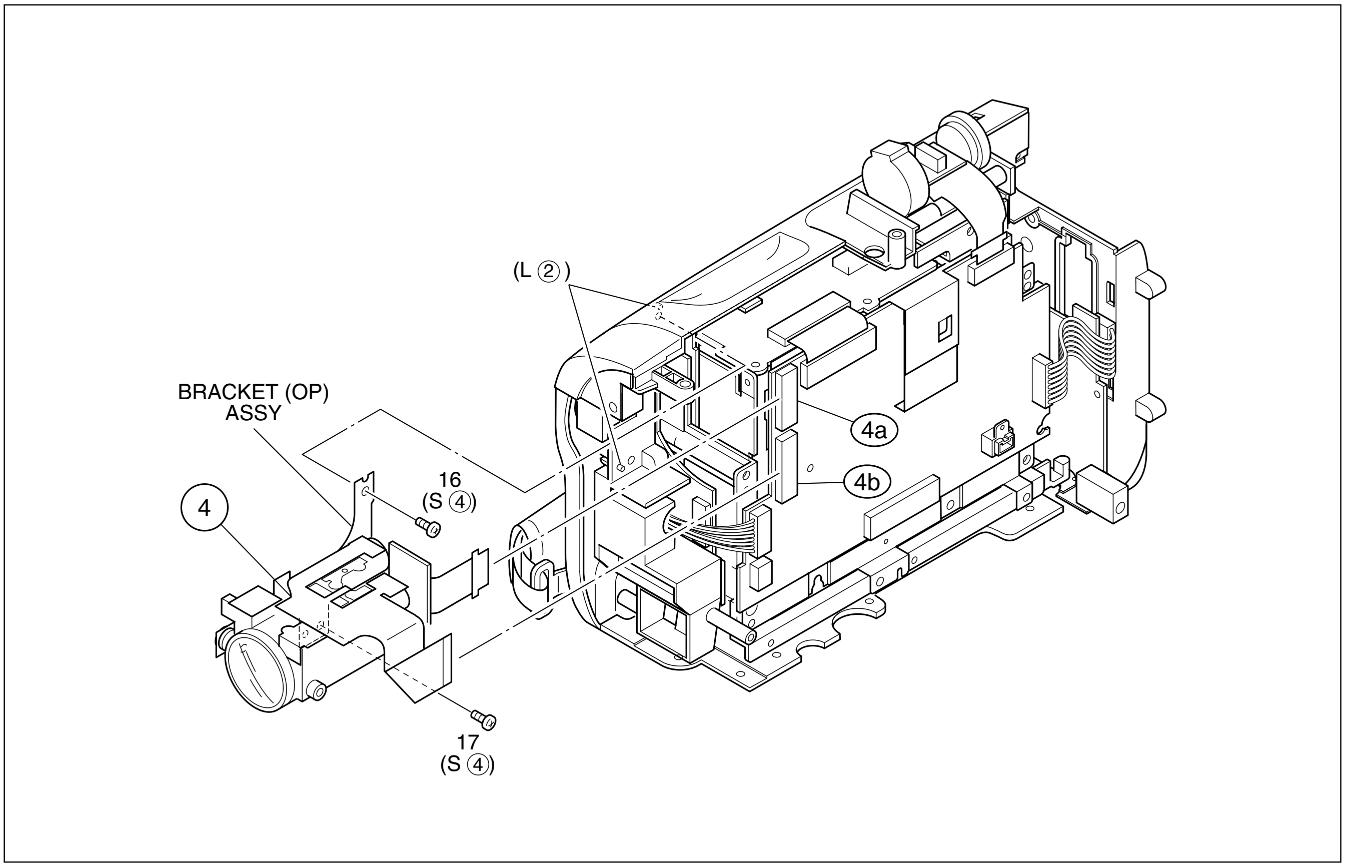

(L ②)
BRACKET (OP) ASSY
4
16
(S ④)
4a
4b
17
(S ④)

Fig. 1-3-4

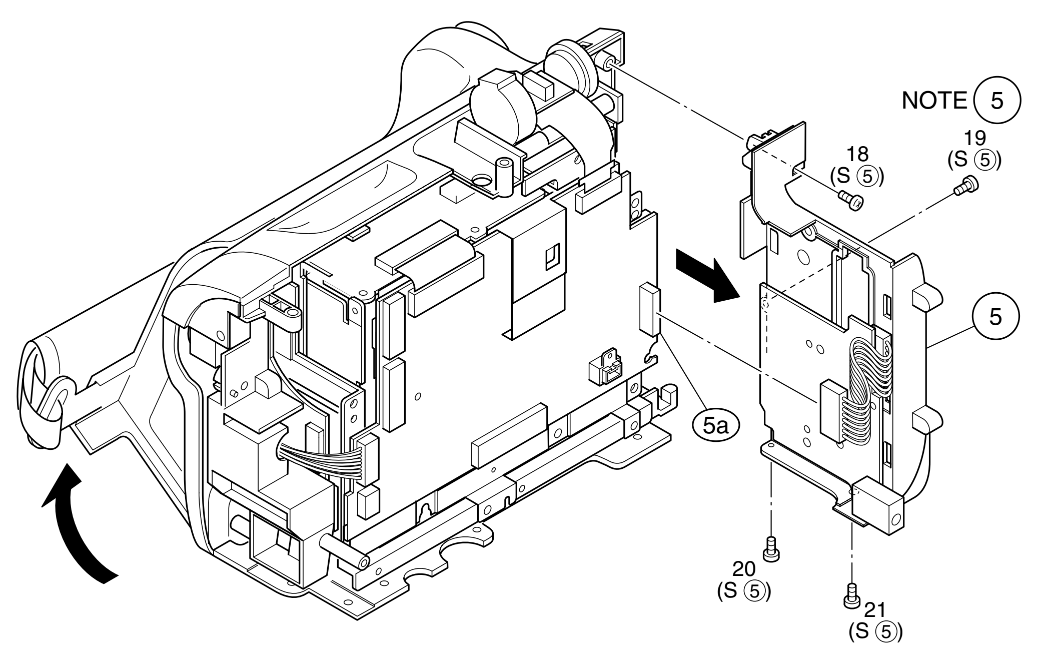
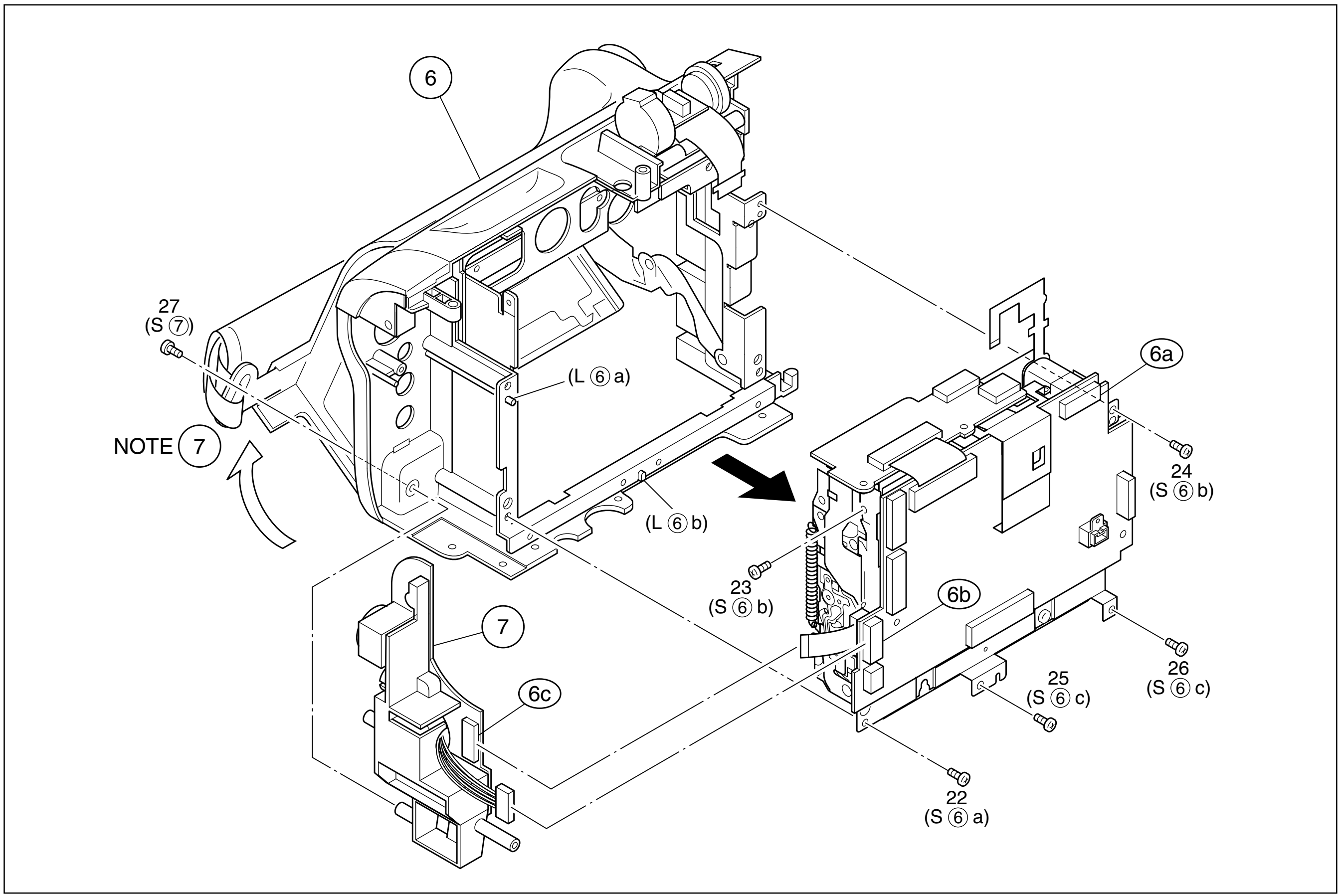
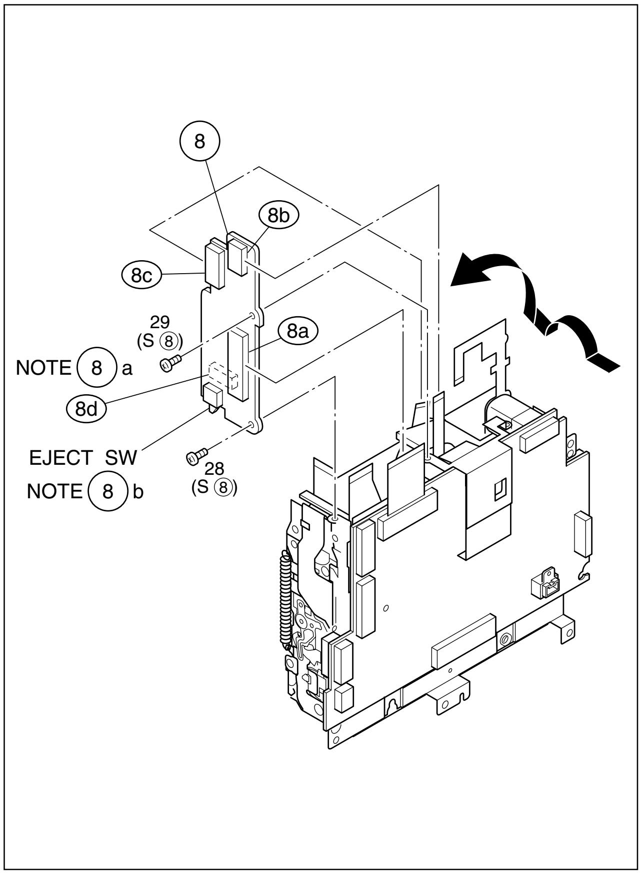

NOTE ⑤
18
(S ⑤)
19
(S ⑤)
5
5a
20
(S ⑤)
21
(S ⑤)

Fig. 1-3-5



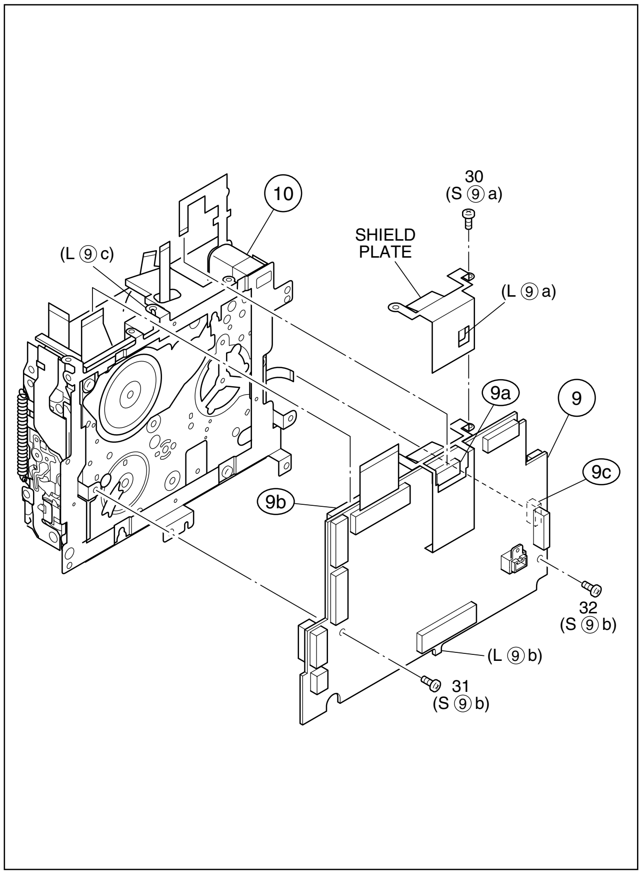
⑥
27
(S ⑦)
(L ⑥ a)
NOTE ⑦
(L ⑥ b)
6a
24
(S ⑥ b)
23
(S ⑥ b)
6b
⑦
6c
25
(S ⑥ c)
26
(S ⑥ c)
22
(S ⑥ a)

Fig. 1-3-6



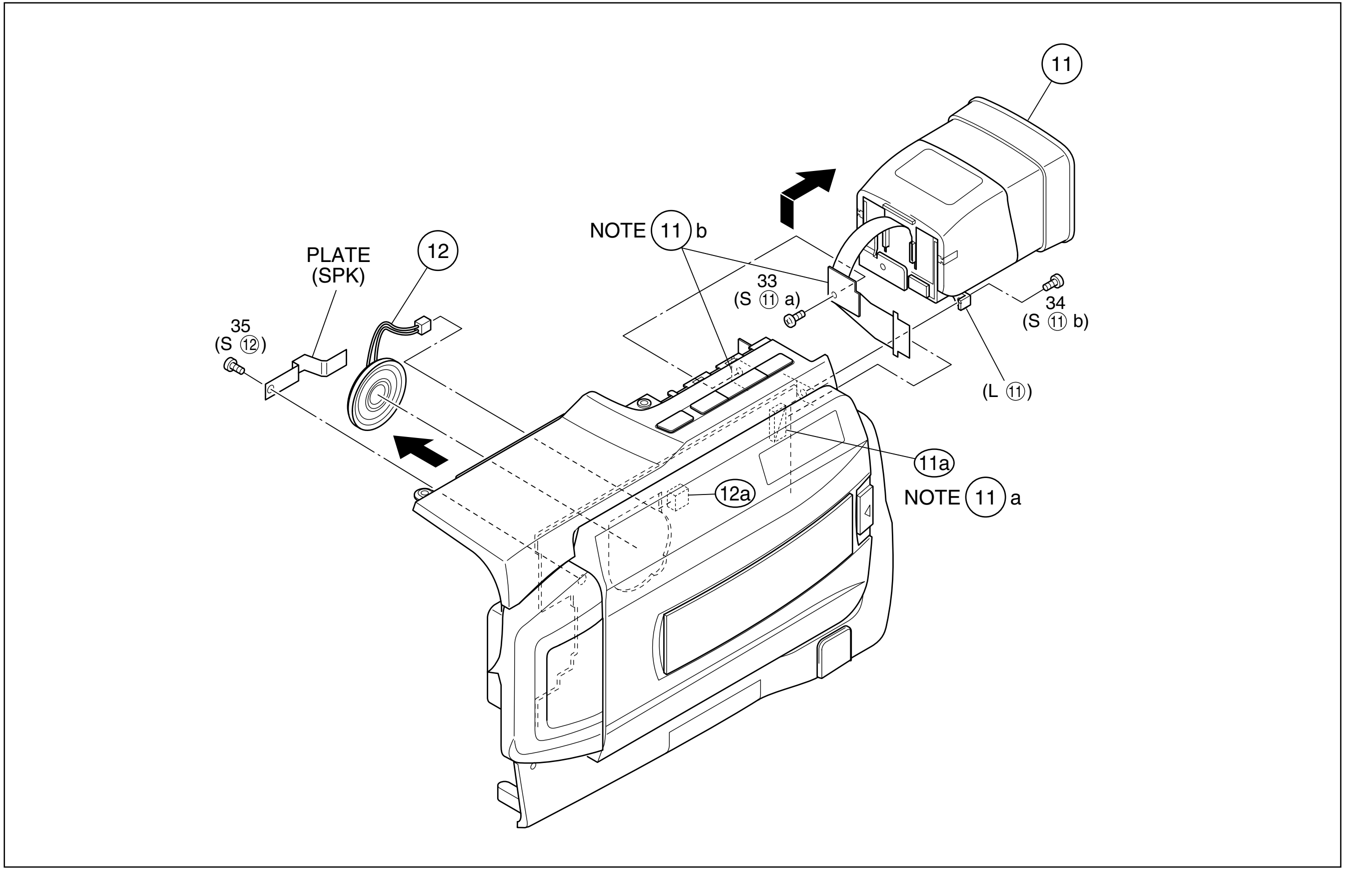
⑧
8b
8c
29
(S ⑧)
8a
NOTE ⑧ a
8d
EJECT SW
28
(S ⑧)
NOTE ⑧ b

Fig. 1-3-7



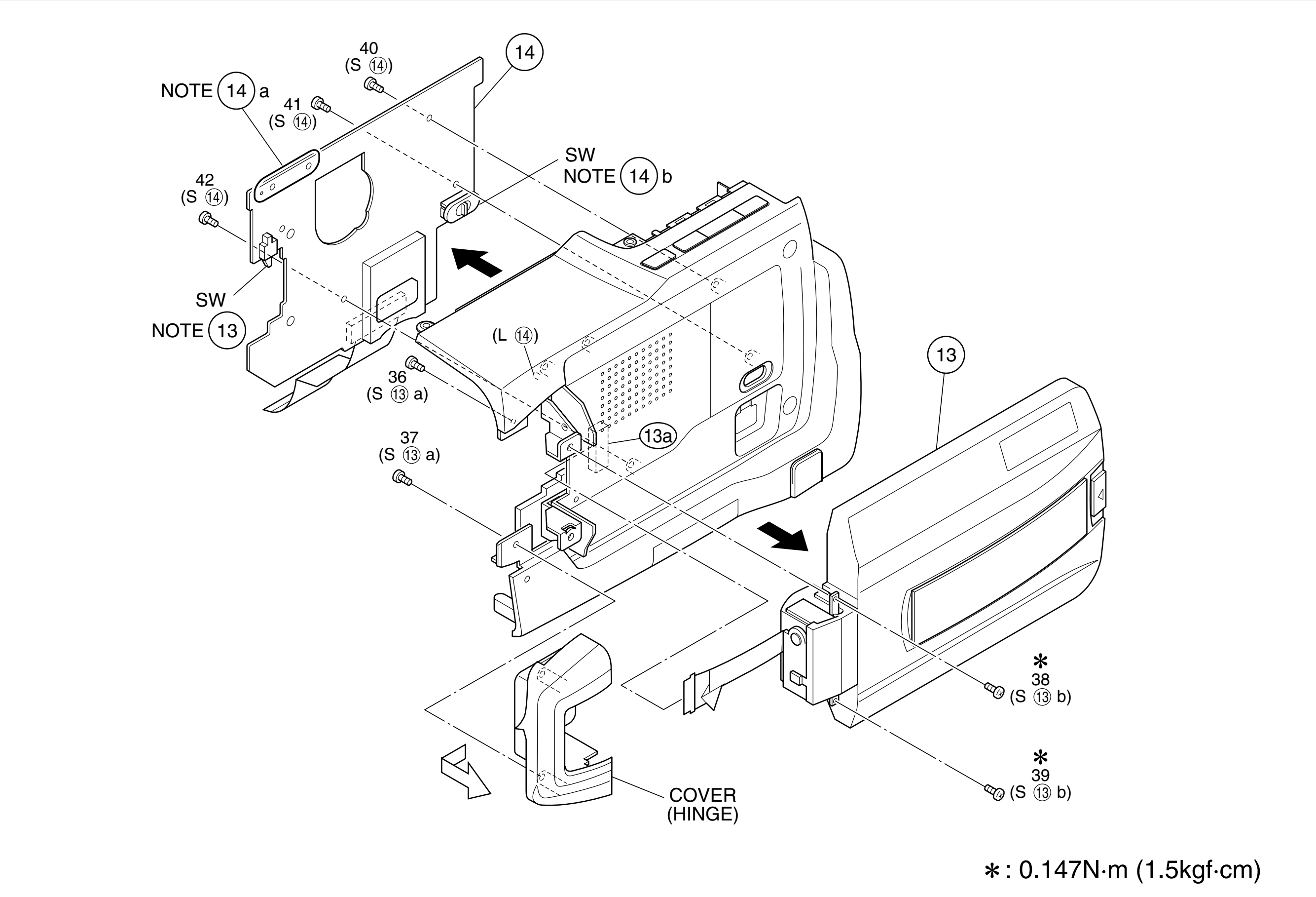
⑩
30
(S ⑨ a)
SHIELD
PLATE
(L ⑨ c)
(L ⑨ a)
9a
⑨
9c
9b
32
(S ⑨ b)
(L ⑨ b)
31
(S ⑨ b)

Fig. 1-3-8



⑪
NOTE ⑪ b
PLATE (SPK)
⑫
33 (S ⑪ a)
34 (S ⑪ b)
35 (S ⑫)
(L ⑪)
11a
NOTE ⑪ a
12a

Fig. 1-3-9



40 (S ⑭)
⑭
NOTE ⑭ a
41 (S ⑭)
SW
NOTE ⑭ b
42 (S ⑭)
SW
NOTE ⑬
(L ⑭)
36 (S ⑬ a)
⑬
37 (S ⑬ a)
13a
*
38 (S ⑬ b)
*
39 (S ⑬ b)
COVER (HINGE)
*: 0.147N·m (1.5kgf·cm)

Fig. 1-3-10

1.4 ⑬ MONITOR ASSEMBLY

Note: *The shape of the monitor assembly varies by the size of the LCD screen.*

For the 2.5”-type LCD, refer to Fig. 1-4-1.

1.4.1 Disassembly/assembly of monitor assembly (for 2.5”-type LCD)

Note: *Be careful not to soil or scratch the monitor screen through the disassembly/assembly work.*

1. Remove the four screws 1 to 4 in numerical order. While disengaging the six hooks (L⑬a to L⑬f) in alphabetical order, remove the monitor cover assembly.
2. Unlock the connector a and then disconnect the FPC while lifting the hinge assembly upwards to remove it together with the FPC.

Note⑬a: *For disconnecting the FPC, unlock the connector first and then lift the hinge assembly upwards. Accordingly, the FPC is disconnected together with the hinge assembly.*

Note⑬b: *Treat the wires carefully.*

3. Unplug the wires and FPCs from the two connectors ⓑ, ⓒ, and then remove the MONITOR BL board assembly, holder (PWB) and backlight in that order.
4. Remove the LCD module.

1.4.2 Disassembly/assembly of hinge assembly (for 2.5”-type LCD)

1. Remove the three screws (5 to 7), and then remove the hinge covers (1) and (2) by disengaging a total of four hooks (L⑬g, L⑬h) at the two sides.
2. Separate the SW board assembly and the FPC from the hinge assembly.

Note⑬c: *When connecting the FPC, arrange the FPC wire by winding it around the shaft (hinge pin) of the hinge assembly by two and a half turns while paying heed to the orientation of the hinge assembly and FPC.*

Note⑬d: *When disassembling/assembling the hinge assembly, pay careful attention to every part not to damage anything.*

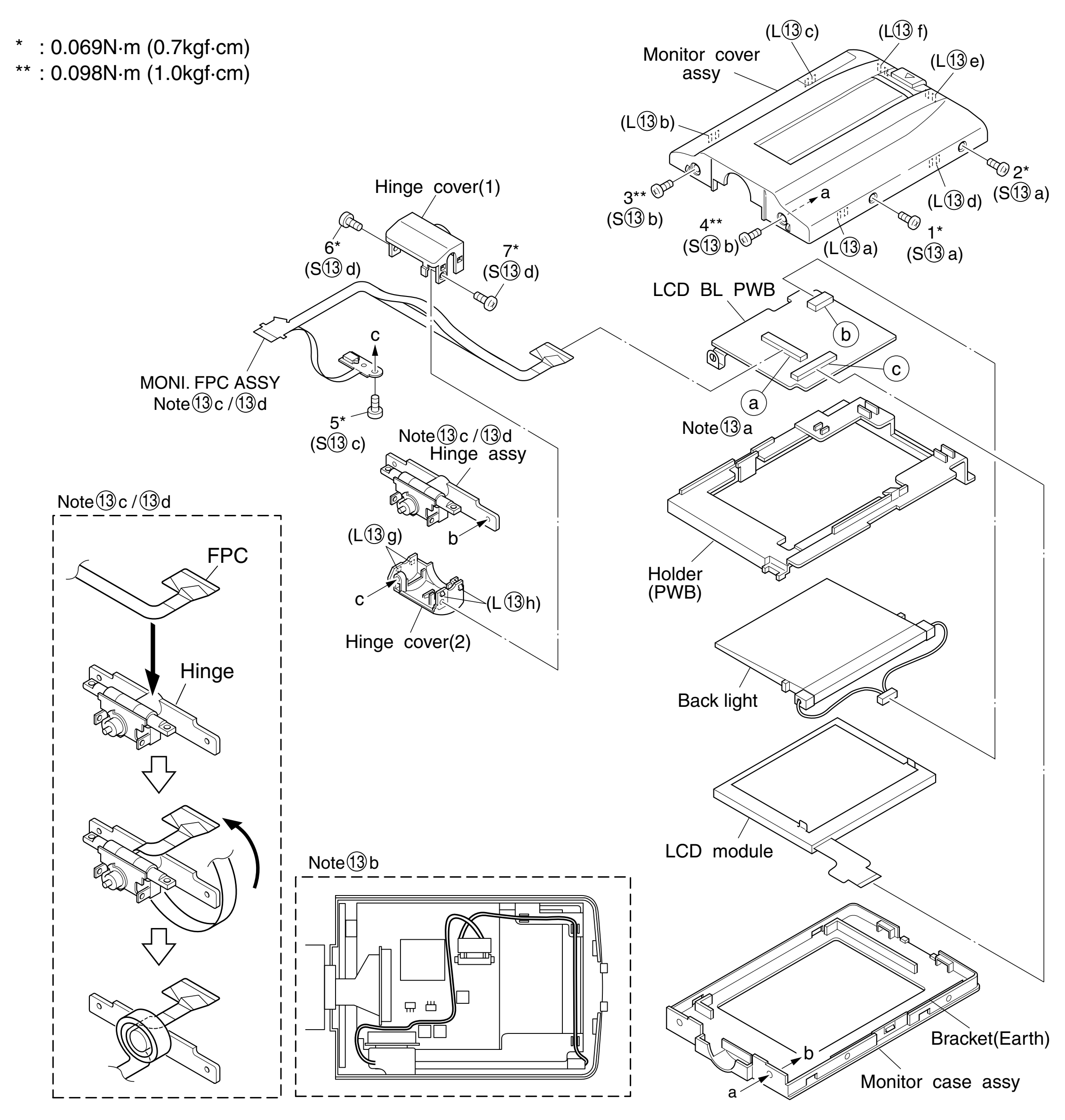

* : 0.069N·m (0.7kgf·cm)
** : 0.098N·m (1.0kgf·cm)
(L⑬c)
(L⑬f)
Monitor cover assy
(L⑬e)
(L⑬b)
2*
(S⑬a)
3**
(S⑬b)
a
(L⑬d)
4**
(S⑬b)
(L⑬a)
1*
(S⑬a)
Hinge cover(1)
6*
(S⑬d)
7*
(S⑬d)
LCD BL PWB
b
c
c
MONI. FPC ASSY
Note⑬c / ⑬d
a
5*
(S⑬c)
Note⑬c / ⑬d
Hinge assy
Note⑬a
Note⑬c / ⑬d
FPC
(L⑬g)
b
c
(L⑬h)
Hinge cover(2)
Holder (PWB)
Hinge
Back light
LCD module
Note⑬b
Bracket(Earth)
b
a
Monitor case assy

Fig. 1-4-1

Note: *The shape of the monitor assembly varies depending on the size of the LCD screen.*
For the 3.5"-type LCD, refer to Fig. 1-4-2.

1.4.3 Disassembly/assembly of monitor assembly (for 3.5"-type LCD)

Note: *Be careful not to soil or scratch the monitor screen through the disassembly/assembly work.*

1. Remove the four screws 1 to 4 in numerical order. While disengaging the six hooks (L⑬a to L⑬f) in alphabetical order, open the monitor cover assembly and remove it after disconnecting the FPC from the connector a..

Note⑬e: *When removing the monitor cover assembly, be careful not to damage the FPC and connector.*

2. Unlock the connector b and then disconnect the FPC while lifting the hinge assembly upwards to remove it together with the FPC.

Note⑬f: *For disconnecting the FPC, unlock the connector first and then lift the hinge assembly upwards. Accordingly, the FPC is disconnected together with the hinge assembly.*

Note⑬g: *Treat the wires carefully.*

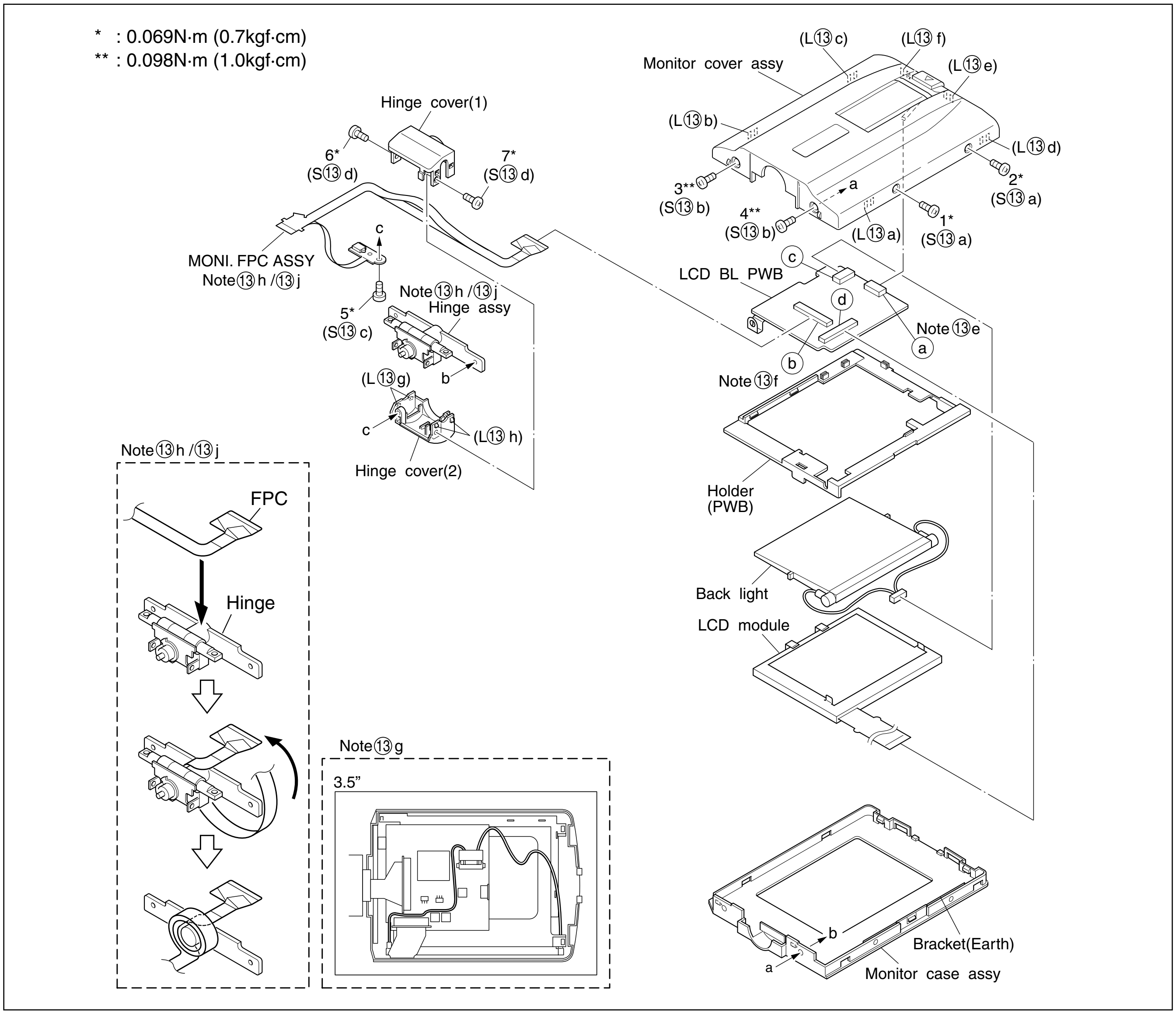
3. Unplug the wires and FPCs from the two connectors ⓑ, ⓒ, and then remove the MONITOR BL board assembly, holder (PWB) and backlight in that order.
4. Remove the LCD module.

1.4.4 Disassembly/assembly of hinge assembly (for 3.5"-type LCD)

1. Remove the three screws (5 to 7), and then remove the hinge covers (1) and (2) by disengaging a total of four hooks (L⑬g, L⑬h) at the two sides.
2. Separate the SW board assembly and the FPC from the hinge assembly.

Note⑬h: *When disassembling/assembling the hinge assembly, pay careful attention to every part not to damage anything.*

Note⑬j: *When connecting the FPC, arrange the FPC wire by winding it around the shaft (hinge pin) of the hinge assembly by two and a half turns while paying heed to the orientation of the hinge assembly and FPC.*



* : 0.069N·m (0.7kgf·cm)
** : 0.098N·m (1.0kgf·cm)
Hinge cover(1)
6*
(S⑬ d)
7*
(S⑬ d)
MONI. FPC ASSY
Note⑬ h /⑬ j
c
5*
(S⑬ c)
Note⑬ h /⑬ j
Hinge assy
b
(L⑬ g)
c
(L⑬ h)
Hinge cover(2)
(L⑬ c)
(L⑬ f)
Monitor cover assy
(L⑬ e)
(L⑬ b)
(L⑬ d)
3**
(S⑬ b)
4**
(S⑬ b)
a
(L⑬ a)
1*
(S⑬ a)
2*
(S⑬ a)
LCD BL PWB
c
d
b
a
Note⑬e
Note⑬f
Holder (PWB)
Back light
LCD module
Note⑬ h /⑬ j
FPC
Hinge
Note⑬ g
3.5"
b
a
Bracket(Earth)
Monitor case assy

Fig. 1-4-2

1.5 ⑪ E. VF ASSEMBLY

Note: *The shape of the E. VF assembly varies by the type of the viewfinder (B/W, COLOR VF).*
(For the B/W VF, refer to Fig. 1-5-1.
For the COLOR VF, refer to Fig. 1-5-2.)

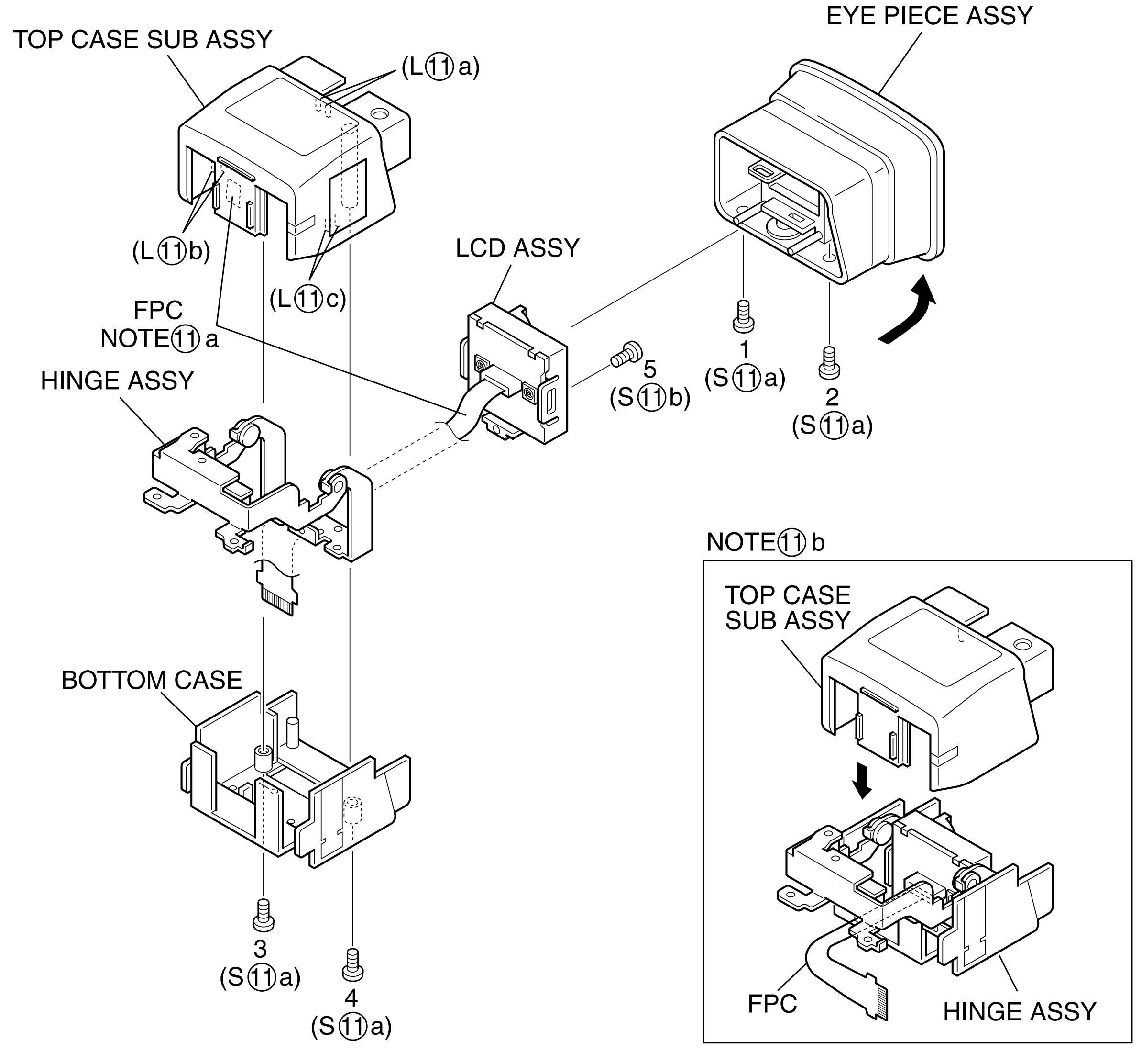
1.5.1 Disassembly/assembly of E. VF assembly (for B/W VF)

1. Remove the two screws (1, 2) and the eyepiece assembly while disengaging the hook (L⑪a).
2. Remove the two screws (3, 4). And spread one side of the top case sub-assembly to disengage the hooks (L⑪b, L⑪c) that are located at both sides of the top case sub-assembly, then remove the top case sub-assembly.

Note⑪a: *When removing the top case sub-assembly, peel off or unplug the FPC that is bonded to the sub-assembly.*

Note⑪b: *When reassembling the top case sub-assembly, be careful not to catch the FPC between any of the parts.*

3. Remove the screw (5) and then remove the LCD assembly.



TOP CASE SUB ASSY
(L⑪a)
EYE PIECE ASSY
(L⑪b)
LCD ASSY
(L⑪c)
FPC
NOTE⑪a
HINGE ASSY
5
(S⑪b)
1
(S⑪a)
2
(S⑪a)
NOTE⑪b
TOP CASE
SUB ASSY
BOTTOM CASE
3
(S⑪a)
4
(S⑪a)
FPC
HINGE ASSY

Fig. 1-5-1

1.5.2 Disassembly/assembly of E. VF assembly (for COLOR VF)

Note: *Place the E. VF assembly with the VF case (upper) assembly down through the disassembly/assembly work.*

1. Remove the two screws (1, 2) and the eyepiece assembly while disengaging the hook (L⑪a).
2. Remove the two screws (3, 4). And spread one side of the top case sub-assembly to disengage the hooks (L⑪b, L⑪c) that are located at both sides of the top case sub-assembly, then remove the top case sub-assembly.

Note⑪c: *When removing the top case sub-assembly, peel off or unplug the FPC that is bonded to the sub-assembly.*

Note⑪d: *When reassembling the top case sub-assembly, be careful not to catch the FPC between any of the parts.*

3. Remove the screw (5) and then remove the LCD assembly.

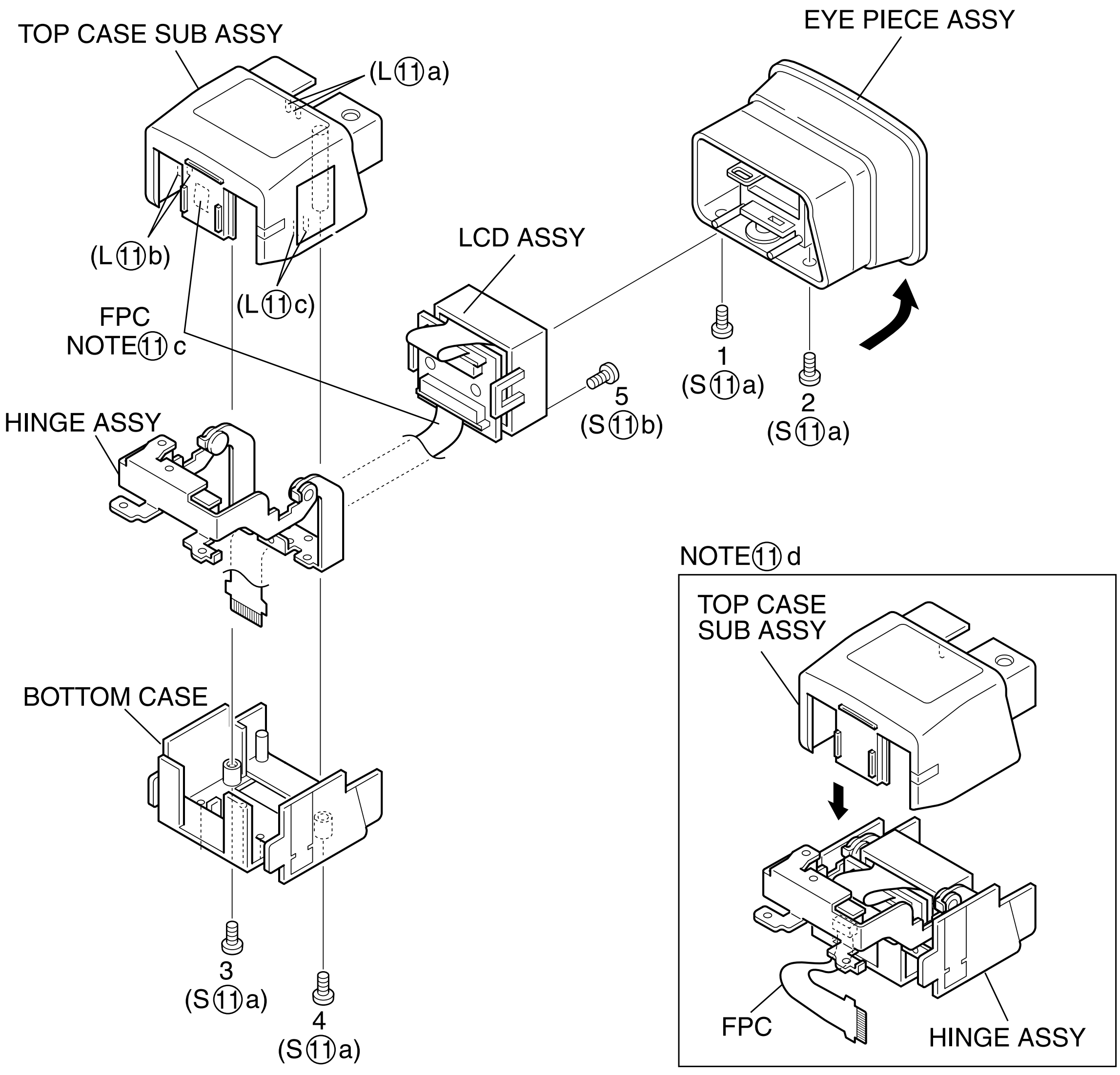

TOP CASE SUB ASSY
(L⑪a)
EYE PIECE ASSY
LCD ASSY
(L⑪b)
(L⑪c)
FPC
NOTE⑪ c
HINGE ASSY
5
(S⑪b)
1
(S⑪a)
2
(S⑪a)
NOTE⑪ d
TOP CASE
SUB ASSY
BOTTOM CASE
3
(S⑪a)
4
(S⑪a)
FPC
HINGE ASSY

Fig. 1-5-2

1.6 DISASSEMBLY/ASSEMBLY OF OP BLOCK ASSEMBLY/CCD BOARD ASSEMBLY

1.6.1 Precautions

1. Take care in handling the CCD image sensor, optical LPF and lens components when performing maintenance etc., especially with regard to surface contamination, attached dust or scratching. If fingerprints are present on the surface they should be wiped away using either a silicon paper, clean chamois or the cleaning cloth.
2. The CCD image sensor may have been shipped with a protective sheet attached to the transmitting glass. When replacing the CCD image sensor, do not peel off this sheet from the new part until immediately before it is mounted in the OP Block Assembly.
3. The orientation of the optical LPF is an important factor for installation. If there is some marking on the LPF, be sure to note it down before removing and to reassemble it very carefully as it was referring to the marking.

1.6.2 How to remove CCD board assembly and CCD base assembly

1. Unsolder the CCD board assembly by the 14 points (SD1) and then remove it.
2. Remove the two screws (1, 2) and remove the CCD base assembly.

Note④a: *When removing the CCD base assembly, pay heed to the CCD image sensor because the spacer rubber and optical LPF are occasionally removed together with the CCD image sensor.*

Note ④b: *When replacing the CCD image sensor, don't replace it individually but replace the CCD base assembly in whole with a new one.*

1.6.3 How to assemble CCD base assembly and CCD board assembly

1. Install the optical LPF with the spacer rubber attached to its CCD side in the OP block assembly.

Note④c: *Pay careful attention to the orientation of the LPF.*

2. Set the CCD base assembly with careful attention to the spacer rubber not to come off the right position, and fasten them together with the two screws (1, 2).
3. Set the CCD board assembly in the CCD base assembly, and then solder it by the 14 points (SD1).

1.6.4 Replacement of Service Repair Parts

The service repair parts for the OP Block Assembly are as listed below.

Before replacement of these parts, remove the bracket (OP assembly) as required.

Take special care not to disconnect any of the FPC wires or cause any damage due to soldering (excessive heating).

1. Focus motor
2. Zoom motor
3. Iris motor unit

Note④d: *When replacing the focus motor or the zoom motor, solder the FPC at a space of about 1 mm above the terminal pin.*

Note④e: *The iris motor unit includes the FPC Assembly and two sensors.*

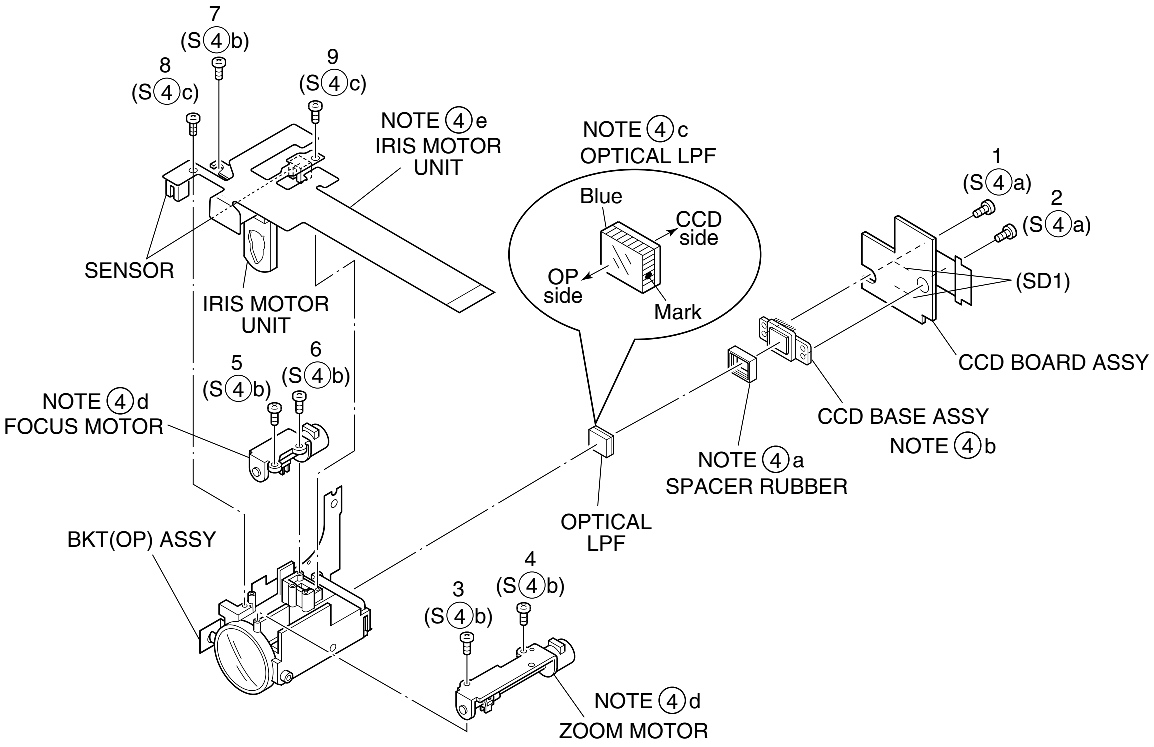


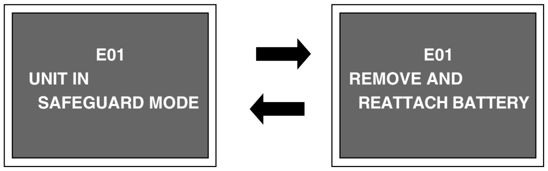
Fig. 1-6-1

1.7 EMERGENCY DISPLAY

Whenever some abnormal signal is input to the syscon CPU, an error number (E01, as an example) is displayed on the LCD monitor or (in the electronic view finder).
In every error status, such the message as shown below alternately appear over and over.

- In an emergency mode, all operations except turning on/off the POWER switch are ineffectual.

Example (in case of the error number E01):



E01
UNIT IN
SAFEGUARD MODE

E01
REMOVE AND
REATTACH BATTERY

LCD display	Emergency mode	Details	Possible cause
E01	LOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift. 3. No power is supplied to the loading MDA.
E02	UNLOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.
E03	TU & SUP REEL FG	In the case no REEL FG is produced for 4 seconds or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off. This error is defined as [E03]. However, no REEL EMG is detected in the SLOW/STILL mode.	1. The idler gear does not engage with the reel disk well. 2. Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism. 3. No FG pulse is output from the reel sensor. 4. No power is supplied to the reel sensor. 5. Tape transport operation takes place with a cassette having no tape inside. 6. The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status.
E04	DRUM FG	In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off.	1. The drum cannot be started or drum rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. 2) The tape is damaged or soiled with grease, etc. 2. The DRUM FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the DRUM FG pulse generator (hall element). 3. No drum control voltage is supplied to the MDA. 4. No power is supplied to the DRUM MDA.
E05	–	–	–
E06	CAPSTAN FG	In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off. However, no CAPSTAN EMG is detected in the STILL/FF/REW mode.	1. The CAPSTAN FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the CAPSTAN FG pulse generator (MR element). 2. No capstan control voltage is supplied to the MDA. 3. No power is supplied to the CAPSTAN MDA. 4. The capstan cannot be started or capstan rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. (Mechanical locking) 2) The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.)

(DVC_03)

Table 1-7-1

1.8 SERVICE NOTE

Symbol No. →	①		② (⑪ / ⑫ / ⑬ / ⑭)										③			④		⑤			
Removing order of screw →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Place to stick screw →					✻																
Reference drawing →	Fig. 1-3-1		Fig. 1-3-2										Fig. 1-3-3			Fig. 1-3-4		Fig. 1-3-5			
Screw tightening torque →	I																				

Symbol No. →	⑥					⑦	⑧		⑨ / ⑩			⑪		⑫	⑬				⑭		
Removing order of screw →	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
Place to stick screw →		✻	✻	✻	✻									✻			✻	✻			
Reference drawing →	Fig. 1-3-6						Fig. 1-3-7		Fig. 1-3-8			Fig. 1-3-9			Fig. 1-3-10						
Screw tightening torque →	I																II		I		

	MONITOR ASSY						
Removing order of screw →	1	2	3	4	5	6	7
Place to stick screw →							
Reference drawing →	Fig. 1-4-1, 2						
Screw tightening torque →	Ⅲ		Ⅳ		Ⅲ		

	VF UNIT(B/W,COLOR)					
Removing order of screw →	1	2	3	4	5	
Place to stick screw →						
Reference drawing →	Fig. 1-5-1, 2					
Screw tightening torque →	Ⅲ					

	OP BLOCK ASSY								
Removing order of screw →	1	2	3	4	5	6	7	8	9
Place to stick screw →									
Reference drawing →	Fig. 1-6-1								
Screw tightening torque →	V								

< NOTE >

1) ✻ : Don't reuse the screw, because screw lock bond was applied to them.
2) Pay careful attention to tightening torque for each screw.
   I : 0.088N·m (0.9kgf·cm) II : 0.147N·m (1.5kgf·cm) Ⅲ : 0.069N·m (0.7kgf·cm)
   Ⅳ : 0.098N·m (1.0kgf·cm) V : 0.118N·m (1.2kgf·cm)

Table 1-8-1

SECTION 2
MECHANISM ADJUSTMENT

2.1 PRELIMINARY REMARKS ON ADJUSTMENT AND REPAIR

2.1.1 Precautions

1. When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.039 N•m (0.4 kgf•cm).
2. Be sure to disconnect the set from the power supply before fastening and soldering parts.
3. When disconnecting/connecting wires, be careful not to get them and their connectors damaged. (Refer to the Section 1.)
4. When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

2.1.2 Notes on procedure for disassemby/assembly

The disassembling procedure table (Table 2-4-1 on page 2-6,a part of the table is shown below for reference)shows the procedure to disassemble/reassemble mechanism parts.
Carefully read the following explanation before starting actual disassembling/reassembling work. The item numbers (circled numbers)in the following explanation correspond to those appearing under respective columns of the table.

(1) Circled numbers appearing in this column indicate the order to remove parts. When reassembling, follow these numbers in the reverse order. Circled numbers in this column correspond to those appearing in drawings of this section.

(2) This column shows part names corresponding to circled numbers in the left column.

(3) The symbol (T or B)appearing in this column shows the side which the objective part is mounted on.
T =the upper side, B =the lower side

(4) Symbols appearing in this column indicate drawing numbers.
Step Part Name Fig. Point Note Remarks

(5) This column indicates parts and points such as screws, washers,springs,and others to be removed/fitted for disassembling/reassembling the mechanism. Besides such the parts, this column occasionally indicates working points.

P = Spring
W = Washer
S = Screw
* = Lock (L),soldering (SD),shield,connector (CN), etc.

Example
- Remove (W1)=Washer W1.
- **Remove the solder at (SD1)=Point SD1.
- **Disconnect Ⓐ =Connector Ⓐ .

(6) Numbers in this column represent the numbers of notes in the text. For example, “1” means “Note 1”.
(For parts that need phase adjustment after reassembling, refer to “2.6 MECHANISM ADJUSTMENTS”.)

(7) This column indicates required after disassembling/reassembling work such as phase adjustment or mechanism adjustment.

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
Ⓐ	Cassette housing assembly	T	Fig. 2-4-5	3(S1),(L1a)-(L1d)	1a, 1b, 1c, 1d	Adjustment
(2a)	Reel disk (SUP) assembly	T	Fig. 2-4-6	(W2)	2a, 2b	
(2b)	Reel disk (TU) assembly	T		(W2)	2a, 2b	
(2c)	Reel cover assembly	T		(S2b),2(S2a),(W2)	2d	
(3a)	Tension arm assembly	T	Fig. 2-4-7	(W3a)	3b	
(3b)	Release guide assembly	T		-	3a	
(3c)	Idler arm assembly	T		(W3b)	-	
(3d)	Guide arm assembly	T		-	3a	
(3e)	Pinch roller arm assembly	T		(W3a)	-	
(4a)	Cleaner arm assembly	T	Fig. 2-4-8	(L4a)	4a	
(4b)	Slant pole arm assembly	T		(W4),(L4b),(P4a),(P4b)	4b	
(4c)	Drum assembly	T		3(S4)	-	
(5a)	Guide roller (S) assembly	T	Fig. 2-4-9	(P5)	5a	
(5b)	Rail assembly	T		3(W5a), (W5b)	5b, 5c	

(1) (2) (3) (4) (5) (6) (7)

2.2 JIGS AND TOOLS REQUIRED FOR DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

2.2.1 Tools required for adjustments

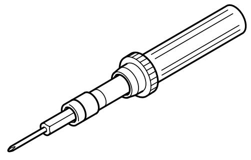
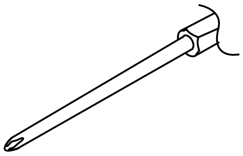
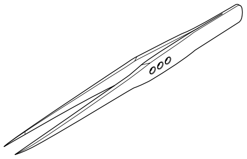
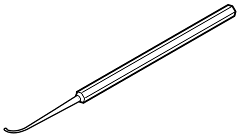
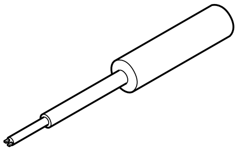
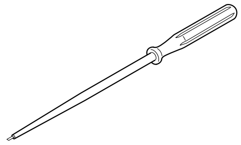
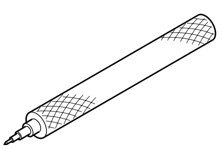
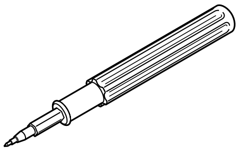
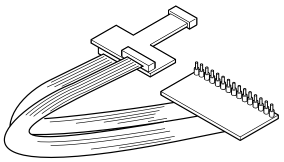
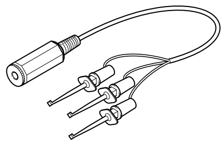
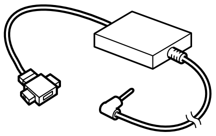
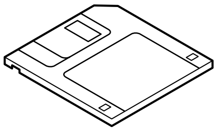
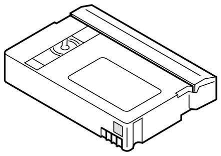
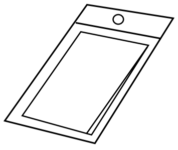
1 Torque Driver YTU94088	2 Bit YTU94088-003
	
3 Tweezers P-895	4 Chip IC Replacement Jig PTS40844-2
	
5 Guide Driver YTU94148A	6 Adjustment Driver YTU94028
	
7 Slit Washer Installation Jig YTU94121A	8 Slit Washer Installation Jig YTU94121B
	
9 Jig Connector cable YTU93082G	10 Communication cable YTU93107A
	
11 PC cable QAM0099-002	12 Service Support System YTU94057-52
	
13 Alignment Tape MC-2	14 Cleaning Cloth KSMM-01
	

Table 2-2-1

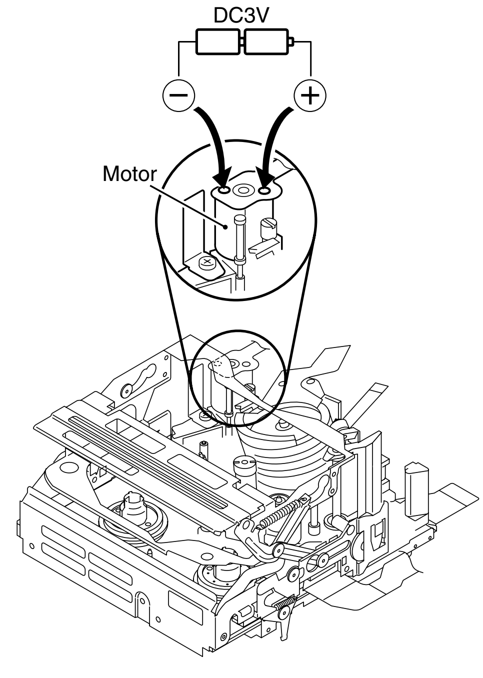
1. **Torque Driver**
   Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
2. **Bit**
   This bit is slightly longer than those set in conventional torque drivers.
3. **Tweezers**
   To be used for removing and installing parts and wires.
4. **Chip IC replacement Jig**
   To be used for adjustment of the camera system.
5. **Guide Driver**
   To be used to turn the guide roller to adjustment of the linarity of playback envelope.
6. **Adjustment Driver**
   To be used for adjustment.
7. **Slit washer Installation Jig**
   To be used to install slit washers.
8. **Slit washer Installation Jig (NEW TYPE)**
   To be used to install slit washers.
9. **Jig Connector cable**
   Connected to CN105 of the main board and used for electrical adjustment, etc.
10. **Communication cable**
    Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
11. **PC cable**
    To be used to connect the VideoMovie and a personal computer with each other when a personal computer is used for adjustment.
12. **Service Support System**
    To be used for adjustment with a personal computer.
13. **Alignment Tape**
    To be used for check and adjustment of interchangeability of the mechanism.
14. **Cleaning Cloth**
    Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

2.3 DISASSEMBLY/ASSEMBLY OF MECHANISM ASSEMBLY

2.3.1 General statement

The mechanism should generally be disassembled/assembled in the EJECT mode (ASSEMBLY mode). (Refer to Fig. 2-3-1.)
However, when the mechanism is removed from the main body, it is set in the STOP mode. Therefore, after the mechanism is removed from the main body, supply 3 V DC to the electrode on the top of the loading motor to enter the mechanism mode into the EJECT mode compulsory.

<Mechanism assembly/Cassette housing assembly>



<Back side of the mechanism assembly>

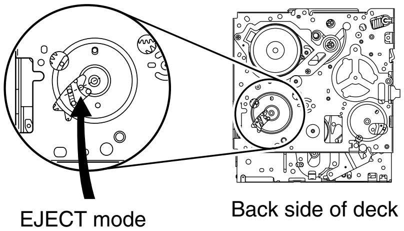


Fig. 2-3-1

2.3.2 Explanation of mechanism mode

The mechanism mode of this model is classified into six modes as shown in Table 2-3-1. Each mechanism mode can be distinguished from others by the relative position of "○" mark on the sub cam gear to the inner or outer protrusion on the main deck.
Refer to Fig. 2-3-2 to 2-3-8 below.
The EJECT mode, C IN mode and SHORT FF mode should be recognized by the relative position of the "○" mark to the inner protrusion, while the STOP mode, REV mode and PLAY mode should be recognized by that to the outer protrusion.

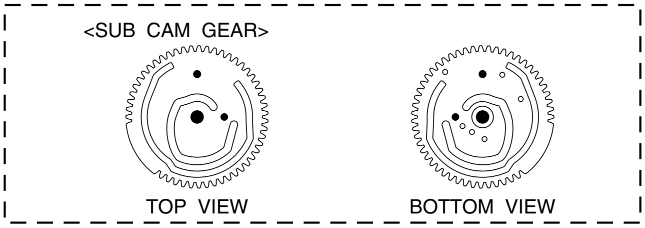


Fig. 2-3-2

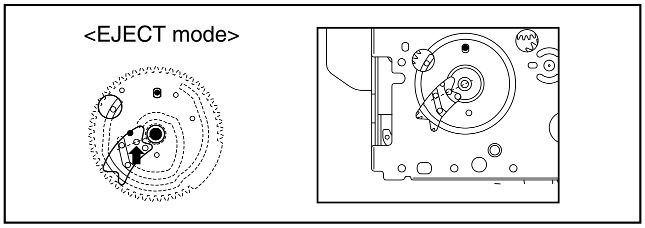


Fig. 2-3-3

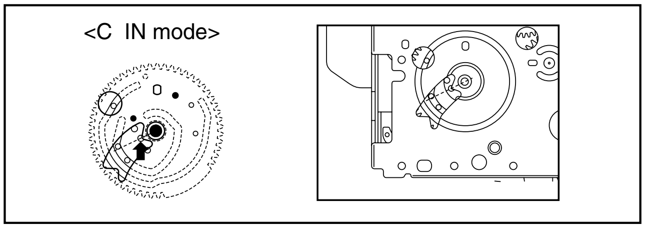


Fig. 2-3-4

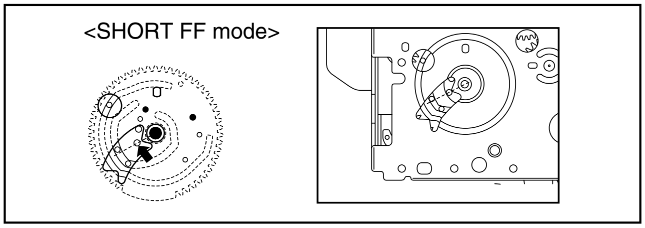


Fig. 2-3-5

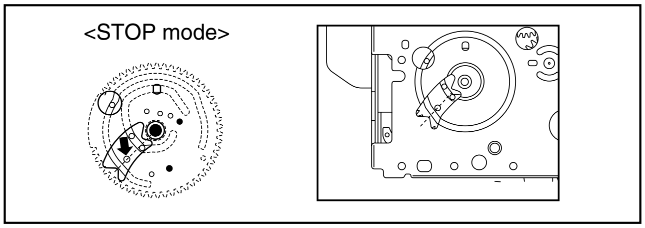


Fig. 2-3-6

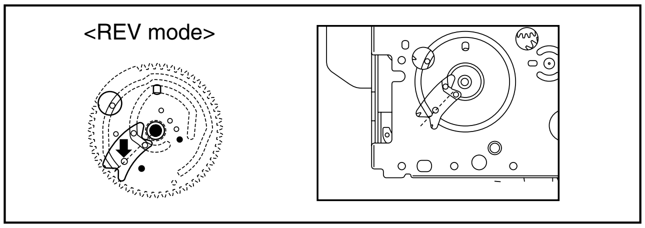


Fig. 2-3-7

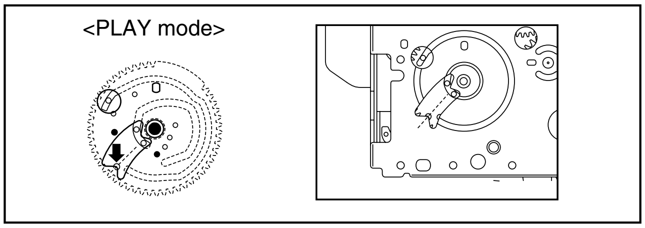


Fig. 2-3-8

2.3.3 Mechanism timing chart

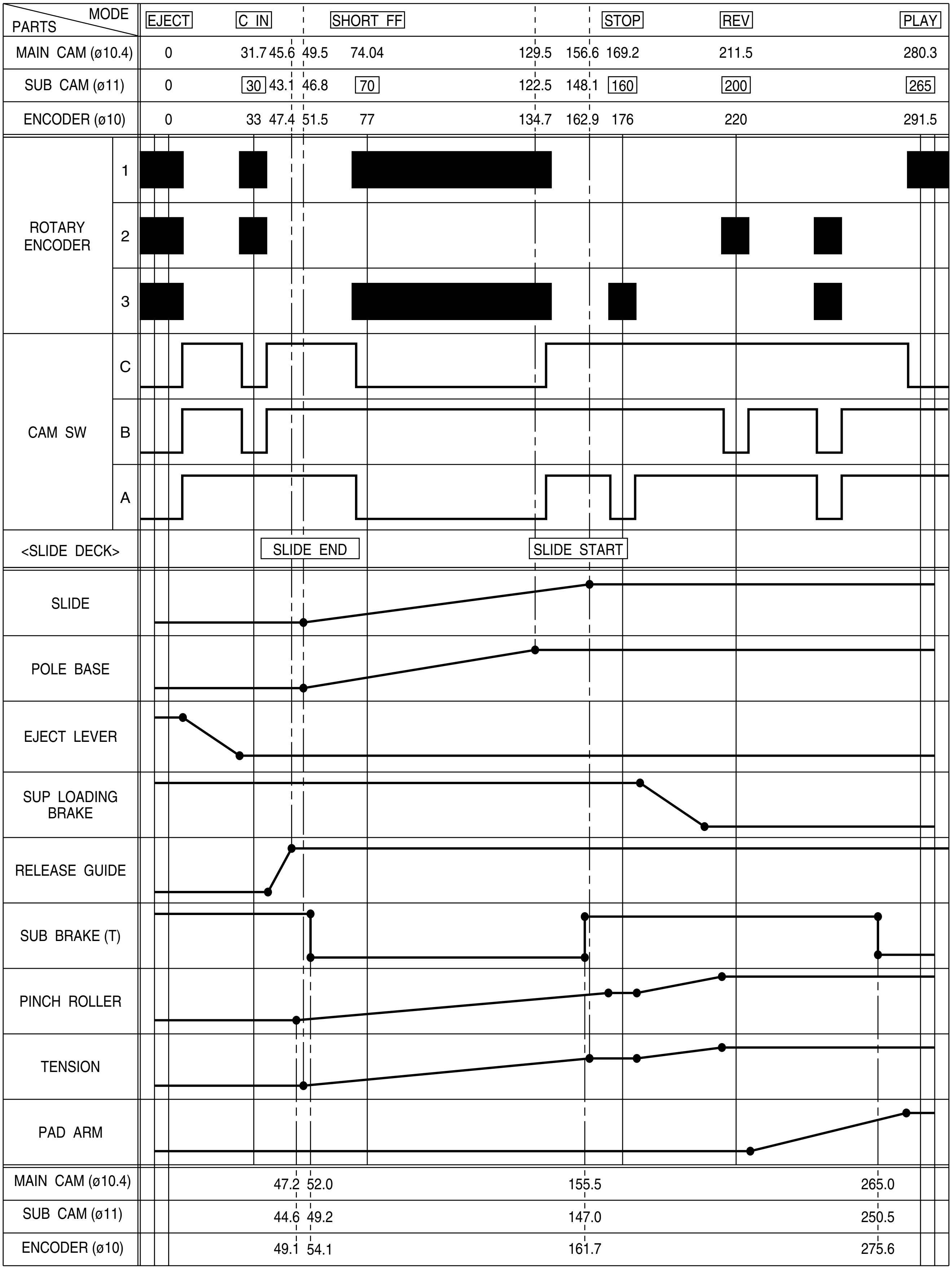

MODE
PARTS
EJECT
C IN
SHORT FF
STOP
REV
PLAY
MAIN CAM (ø10.4)
0
31.7
45.6
49.5
74.04
129.5
156.6
169.2
211.5
280.3
SUB CAM (ø11)
0
30
43.1
46.8
70
122.5
148.1
160
200
265
ENCODER (ø10)
0
33
47.4
51.5
77
134.7
162.9
176
220
291.5
ROTARY ENCODER
1
2
3
CAM SW
C
B
A
<SLIDE DECK>
SLIDE END
SLIDE START
SLIDE
POLE BASE
EJECT LEVER
SUP LOADING BRAKE
RELEASE GUIDE
SUB BRAKE (T)
PINCH ROLLER
TENSION
PAD ARM
MAIN CAM (ø10.4)
47.2
52.0
155.5
265.0
SUB CAM (ø11)
44.6
49.2
147.0
250.5
ENCODER (ø10)
49.1
54.1
161.7
275.6

Table 2-3-1

2.4 DISASSEMBLY/ASSEMBLY OF MECHANISM ASSEMBLY

2.4.1 Follow chart

1. Configuration

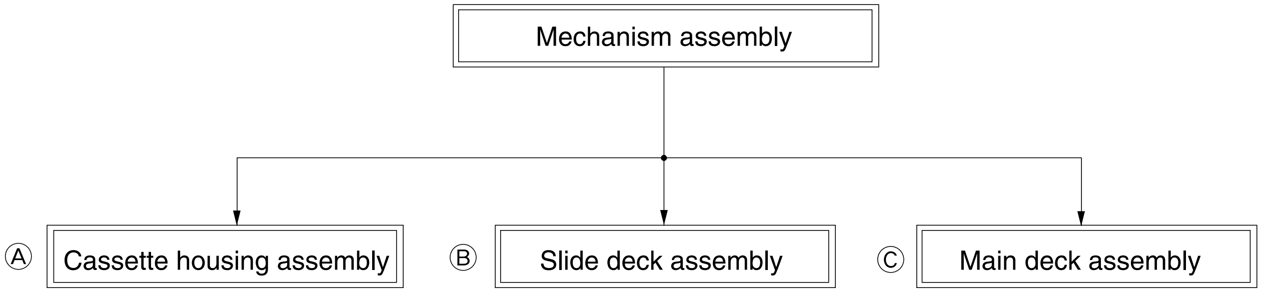

Mechanism assembly
Ⓐ Cassette housing assembly
Ⓑ Slide deck assembly
Ⓒ Main deck assembly

Fig. 2-4-1

2. Procedures for disassembly

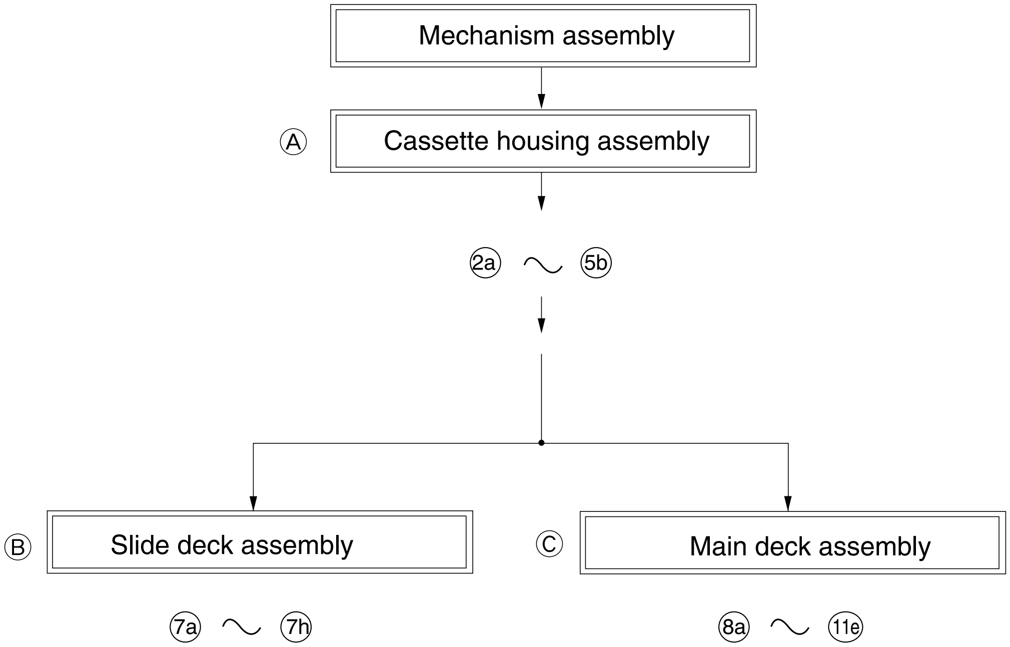

Mechanism assembly
Ⓐ Cassette housing assembly
2a ～ 5b
Ⓑ Slide deck assembly
Ⓒ Main deck assembly
7a ～ 7h
8a ～ 11e

Fig. 2-4-2

3. Disassembling procedure table

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
Ⓐ	Cassette housing assembly	T	Fig. 2-4-5	3(S1),(L1a)-(L1d)	1a, 1b, 1c, 1d	Adjustment
2a	Reel disk (SUP) assembly	T	Fig. 2-4-6	(W2)	2a, 2b	
2b	Reel disk (TU) assembly	T		(W2)	2a, 2b	
2c	Reel cover assembly	T		(S2b),2(S2a),(W2)	2d	
3a	Tension arm assembly	T	Fig. 2-4-7	(W3a)	3b	
3b	Release guide assembly	T		-	3a	
3c	Idler arm assembly	T		(W3b)	-	
3d	Guide arm assembly	T		-	3a	
3e	Pinch roller arm assembly	T		(W3a)	-	
4a	Cleaner arm assembly	T	Fig. 2-4-8	(L4a)	4a	
4b	Slant pole arm assembly	T		(W4),(L4b),(P4a),(P4b)	4b	
4c	Drum assembly	T		3(S4)	-	
5a	Guide roller (S) assembly	T	Fig. 2-4-9	(P5)	5a	
5b	Rail assembly	T		3(W5a), (W5b)	5b, 5c	
Ⓑ	Slide deck assembly / Ⓒ Main deck assembly	T	Fig. 2-4-10	(W6),(L6a)-(L6d)	6a, 6b	(Adjustment)
Ⓑ	Slide deck assembly					
7a	Loading brake assembly	T	Fig. 2-4-11	(W7),(L7a),(P7a)	7e	Adjustment
7b	Guide pin (S)	T		(S7a)	-	
7c	Pad arm assembly	T		(W7),(L7b),(P7b)	7d	
7d	Slide guide plate assembly	T		(S7b)	7c	Adjustment
7e	Collar	T		-	7a	
7f	Collar	T		-	7a	
7g	Sub brake assembly	T		(W7),(L7c),(P7c)	7b	
7h	Control plate assembly	T		2(W7),(L7d),(P7d)	7b	
Ⓒ	Main deck assembly					
8a	Tension lever assembly	T	Fig. 2-4-12	-	8c	
8b	Slide lever assembly	T		-	8b	
8c	Brake control lever assembly	T		-	8a	
9a	Loading guide	T	Fig. 2-4-13	(S9)	-	
9b	Timing belt	T		-	9b	
9c	Center gear assembly	T		-	-	
9d	Motor bracket assembly	T		2(S9)	9a	
9e	Worm wheel	T		(W9)	-	(Phase adjustment)
9f	Gear holder	T		(S9)	-	
10a	Main cam gear	T	Fig. 2-4-14	(S10)	10b	Phase adjustment
10b	Brake control plate	T		(L10)	10b	Phase adjustment
10c	Rotary encoder	T		(S10),(W10a)	10a	Phase adjustment
10d	Connect gear	T		(W10a)	-	(Phase adjustment)
10e	Reel drive pulley assembly	T		(W10b)	-	
11a	Catcher (T) assembly	T	Fig. 2-4-15	2(S11)	-	
11b	Capstan motor	T		2(S11)	-	
11c	Charge arm assembly	T		(W11)	11	
11d	Sub cam gear	T		(S11)	-	Phase adjustment
11e	PWB holder	B		2(S11)	-	

Table 2-4-1

< TOP VIEW >

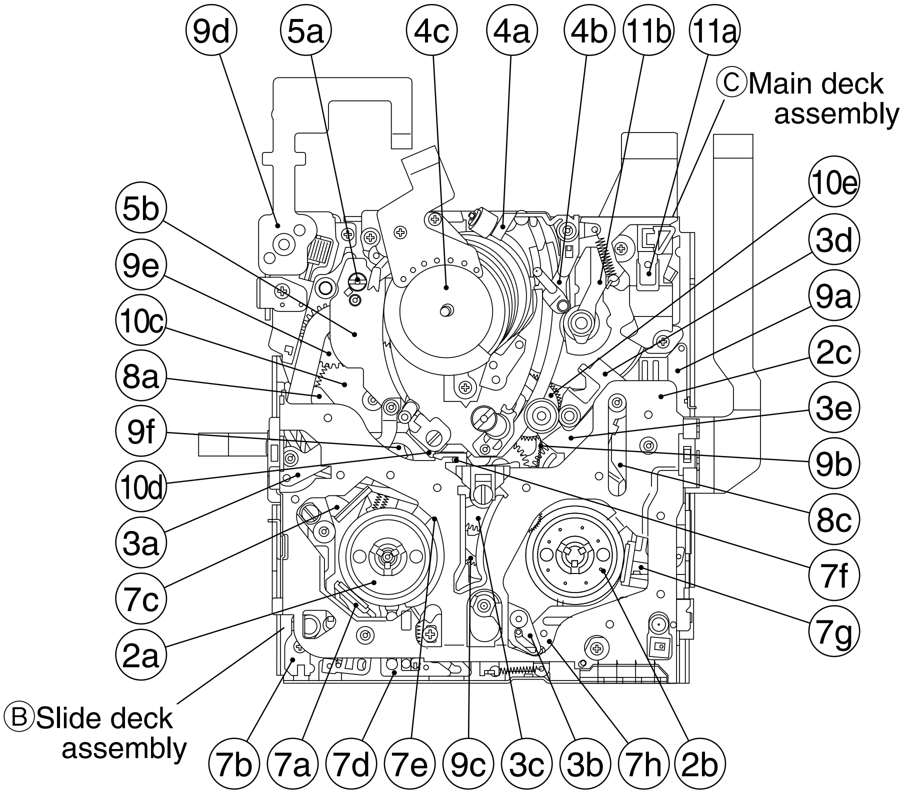

9d
5a
4c
4a
4b
11b
11a
Ⓒ Main deck assembly
10e
5b
3d
9e
9a
10c
2c
8a
3e
9f
9b
10d
8c
3a
7f
7c
7g
2a
Ⓑ Slide deck assembly
7b
7a
7d
7e
9c
3c
3b
7h
2b

Fig. 2-4-3

< BOTTOM VIEW >

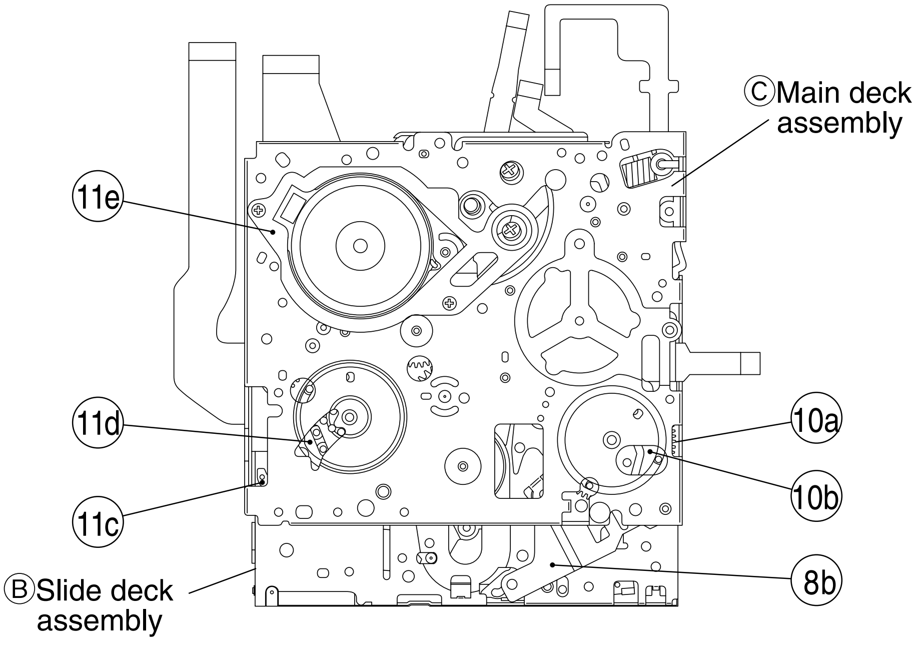

Ⓒ Main deck assembly
11e
11d
10a
10b
11c
8b
Ⓑ Slide deck assembly

Fig. 2-4-4

2.4.2 Disassembly/assembly

1. Ⓐ Cassette housing assembly

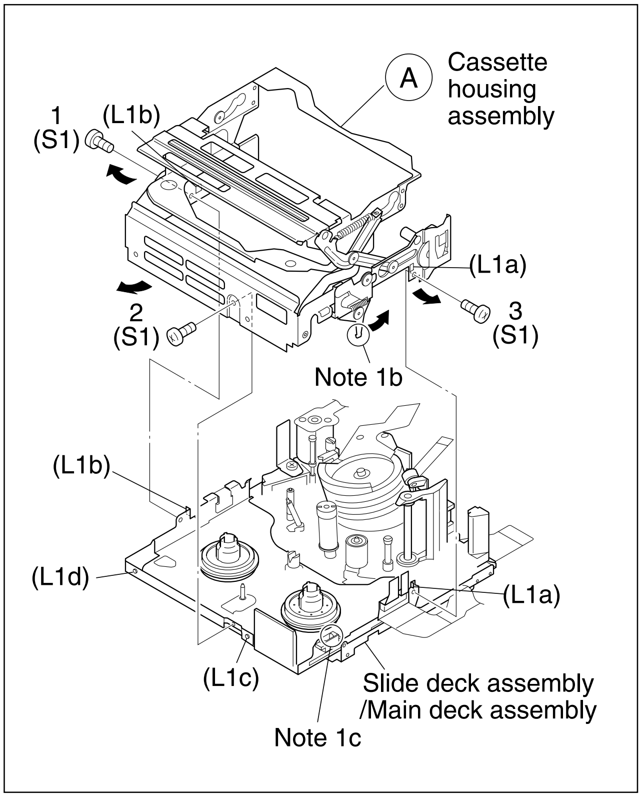
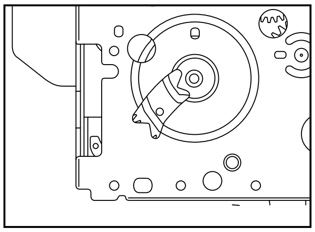
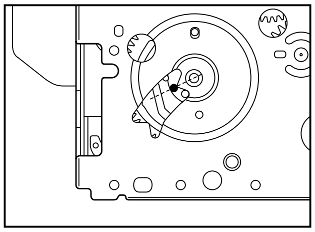

A
Cassette housing assembly
1 (S1)
(L1b)
(L1a)
2 (S1)
3 (S1)
Note 1b
(L1b)
(L1d)
(L1a)
(L1c)
Slide deck assembly /Main deck assembly
Note 1c

Fig. 2-4-5

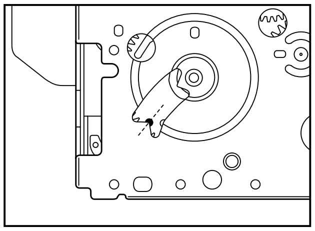
<STOP mode>



<EJECT mode>



<PLAY mode>



Note 1a:
Shift the mechanism mode from the STOP mode to the EJECT mode.

Note 1b:
Reassemble the cassette housing assembly to the mechanism as the cancel lever is moved in the direction of the arrow.

Note 1c:
When reassembling the cassette housing to the mechanism, make sure that there is no deformation in the frame or no damage to the switches, etc.

Note 1d:
After reassembling the component parts, check the mechanism operation in the PLAY mode.
For details of checking method, refer to "2.6.1 assembling slide deck assembly and main deck assembly".

2. (2a) Reel disk (SUP) assembly
(2b) Reel disk (TU) assembly
(2c) Reel cover assembly

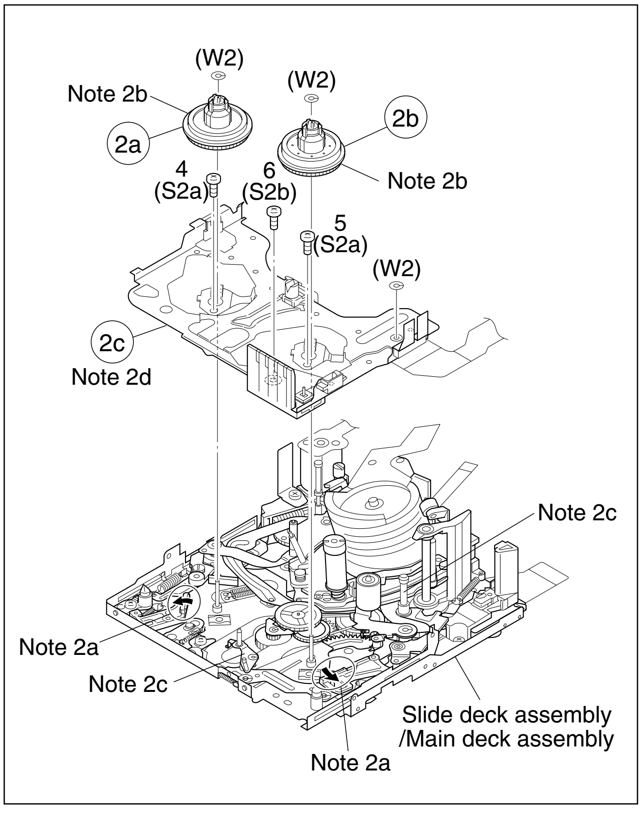
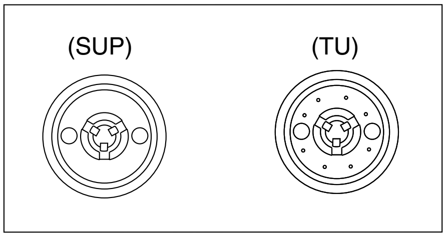

(W2)
(W2)
Note 2b
2a
2b
4 (S2a)
6 (S2b)
Note 2b
5 (S2a)
(W2)
2c
Note 2d
Note 2c
Note 2a
Note 2c
Slide deck assembly /Main deck assembly
Note 2a

Fig. 2-4-6

Note 2a:
When removing the reel disk assembly, be careful not to break the brake pad which applies lateral pressure to the reel disk.

Note 2b:
Be careful not to make a mistake in installing the reel disk. The SUP reel disk and TU reel disk can be distinguished from each other by the appearance as shown below.



Note 2c:
When reassembling the cassette housing to the mechanism, make sure that there is no deformation in the frame or no damage to the switches, etc.

Note 2d:
When fitting the reel cover assembly to the set, carefully tighten the screw with the specified tightening torque of 0.069N•m (0.7kgf•cm).

3. (3a) Tension arm assembly/ (3b) Release guide assembly
(3c) Idler arm assembly/ (3d) Guide arm assembly
(3e) Pinch roller arm assembly

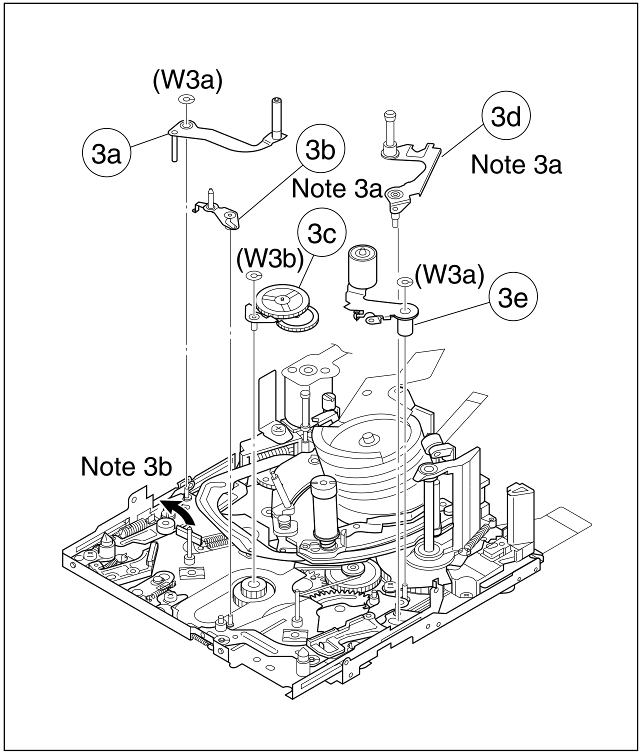
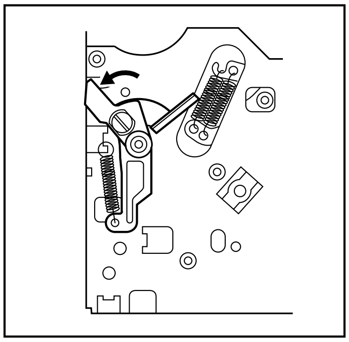

(W3a)
3a
3b
3d
Note 3a
Note 3a
3c
(W3b)
(W3a)
3e
Note 3b

Fig. 2-4-7

Note 3a:
When removing the reel cover assembly, pay heed to release guide assembly and guide arm assembly. For the guide arm assembly is just inserted into the slide deck assembly from the upside and it is apt to come off after the reel cover assembly is removed.

Note 3b:
Reassemble the tension arm assembly to the mechanism as the pad arm assembly is moved to the extent in the direction of the arrow.



4. (4a) Cleaner arm assembly/ (4b) Slant pole arm assembly
(4c) Drum assembly

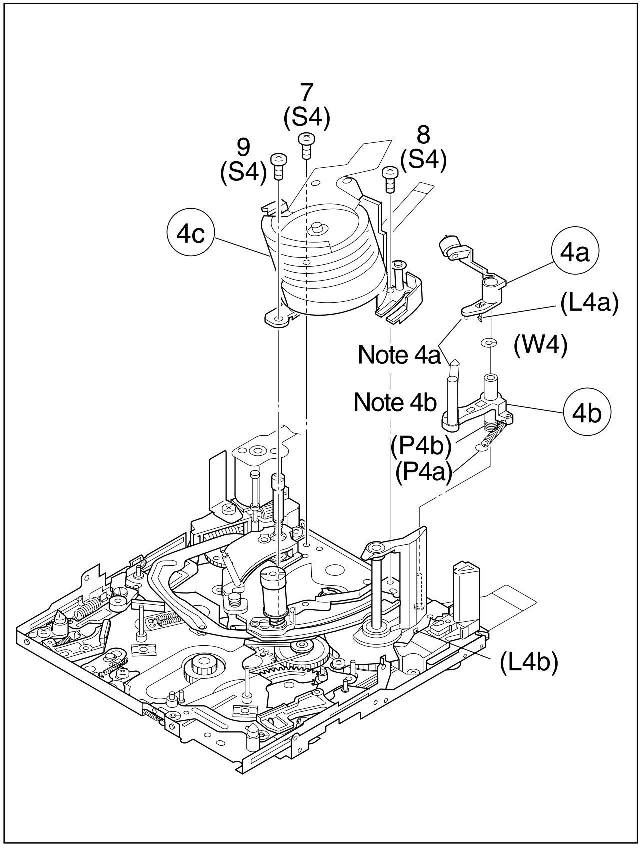
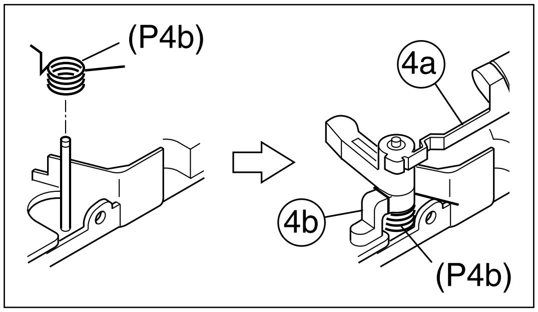

7
(S4)
9
(S4)
8
(S4)
4c
4a
(L4a)
Note 4a
(W4)
Note 4b
4b
(P4b)
(P4a)
(L4b)

Fig. 2-4-8

Note 4a:
When removing the cleaner arm assembly, it is recommended to remove the slant pole arm assembly together with it except the case of a single unit replacement, because the hook (L4a) is hard to disengage.

Note 4b:
How to set the coil spring (P4b).


(P4b)
4a
4b
(P4b)

5. 5a Guide roller (S) assembly/ 5b Rail assembly

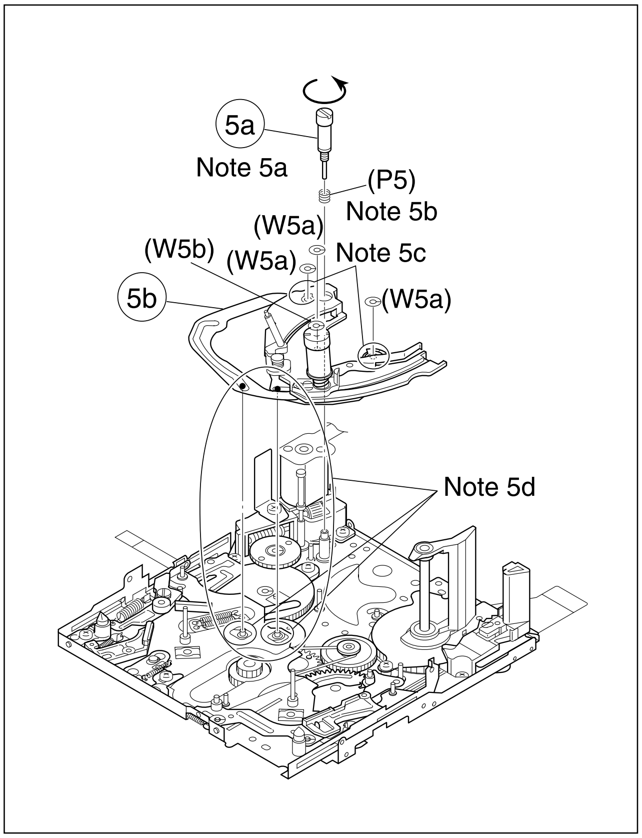
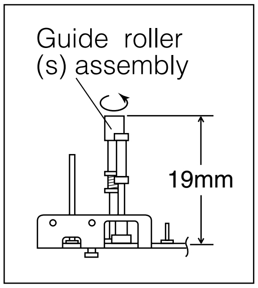

5a
Note 5a
(P5)
Note 5b
(W5a)
(W5b)
(W5a)
Note 5c
5b
(W5a)
Note 5d

Fig. 2-4-9

Note 5a:
When reassembling, insert the tip of the guide roller with the coil spring put on it into the hole on the main deck. Tighten the guide roller by about 6 turns so that the height of the guide roller assembly is 19 mm or so as shown in the figure.


Guide roller
(s) assembly
19mm

Note 5b:
Pay careful attention to the spring not to lose it.

Note 5c:
Pay careful attention to the engagement of the rail assembly's arm ends because they easily come off the engagement. Moreover, make sure that there is neither deformation nor damage observed in them.

Note 5d:
When removing the rail assembly, check to see if the collar is securely set in the arm groove.

6. Ⓑ Slide deck assembly/ Ⓒ Main deck assembly

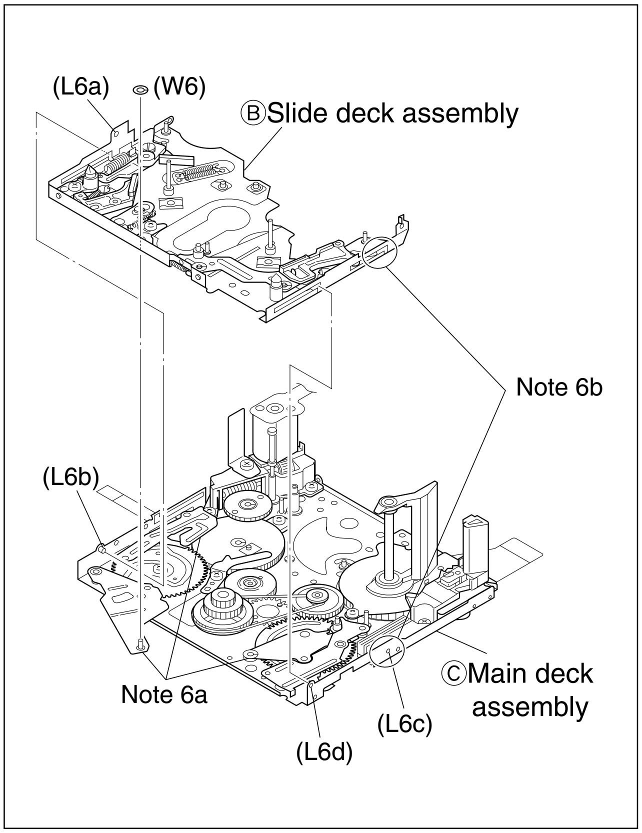
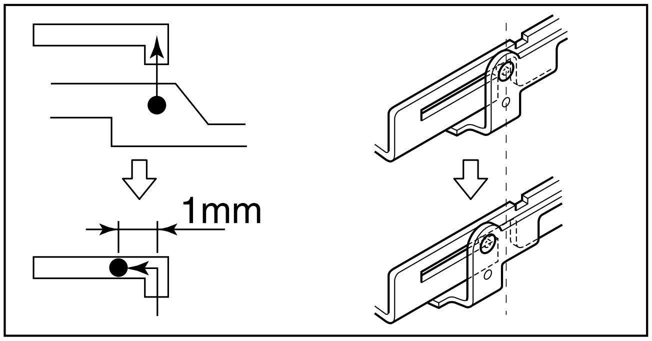

(L6a)
(W6)
Ⓑ Slide deck assembly
Note 6b
(L6b)
Note 6a
Ⓒ Main deck
assembly
(L6c)
(L6d)

Fig. 2-4-10

Note 6a:
When removing the slide deck assembly, pay heed to the three components of the following because they are apt to come off after the slide deck assembly is removed.

8a *Tension lever assembly/* 8b *Slide lever assembly*
8c *Brake control lever assembly*
For reassembling those components, refer to Fig. 2-4-12.

Note 6b:
When reassembling the slide deck assembly to the main deck assembly, combine them with each other by the side grooves and then slide the slide deck assembly by 1 mm or so.



7. 7a Loading brake assembly/ 7b Guide pin (S) 7c Pad arm assembly/ 7d Slide guide plate assembly 7e Collar/ 7f Collar/ 7g Sub brake assembly 7h Control plate assembly

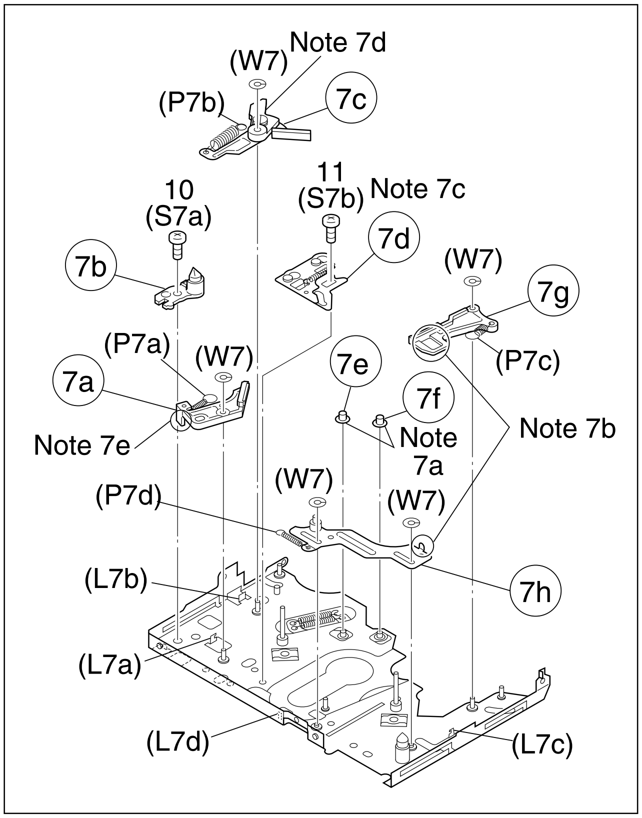
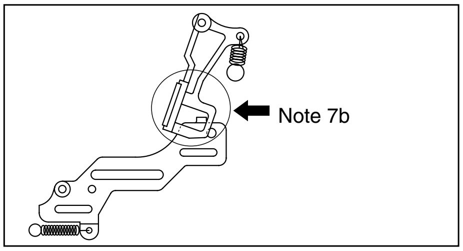


Fig. 2-4-11

Note 7a:
Don't remove these parts unreasonably. If they are removed for some reason, be very careful not to lose them.

Note 7b:
When reinstalling the sub brake assembly, set the control plate assembly so that its hook is set in the □ part of the sub brake assembly.



Note 7c:
Since the slide guide plate assembly controls the slide deck assembly so that it exactly slides the main deck assembly, it must exactly be assembled in the PLAY mode. Therefore, temporarily fix the slide guide plate assembly in this stage. For details of reassembling procedure, refer to "2.6.1 Assembling slide deck assembly and main deck assembly" .

Note 7d:
The pad arm assembly controls the tension level of the tension arm assembly. For adjustment of the tension arm assembly, refer to "2.6.2 Locating tension pole".

Note 7e:
When reinstalling the load brake assembly, slightly lift the slide deck assembly upwards because the lower part of the load brake assembly sticks out of the slide deck assembly.

8. 8a Tension lever assembly/ 8b Slide lever assembly 8c Brake control lever assembly

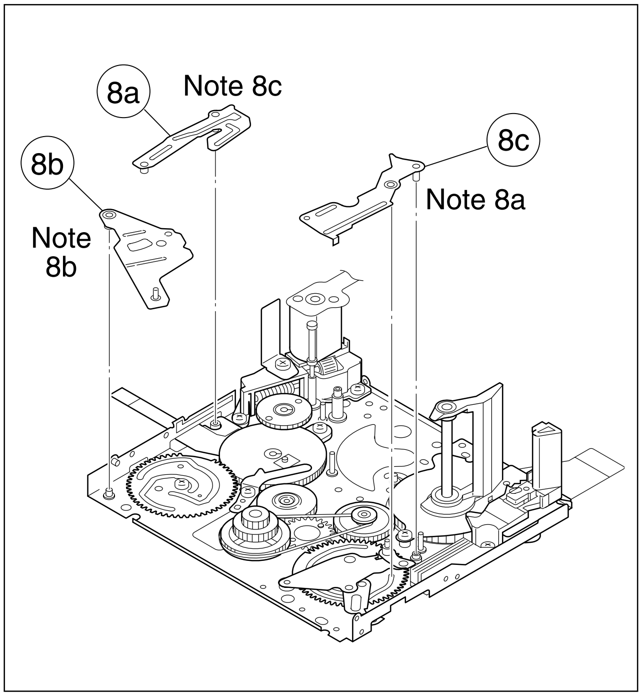
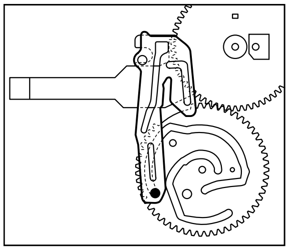


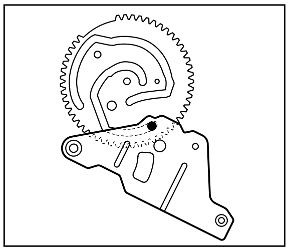
Fig. 2-4-12

Note 8a, 8b, 8c:
For refitting the respective parts, refer to the following figures

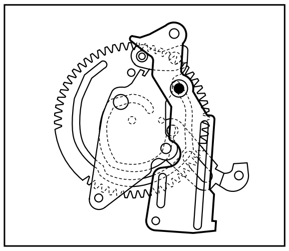
8a Tension lever assembly



8b Slide lever assembly



8c Brake control lever assembly



9. 9a Loading guide/ 9b Timing belt 9c Center gear assembly/ 9d Motor bracket assembly 9e Worm wheel/ 9f Gear holder

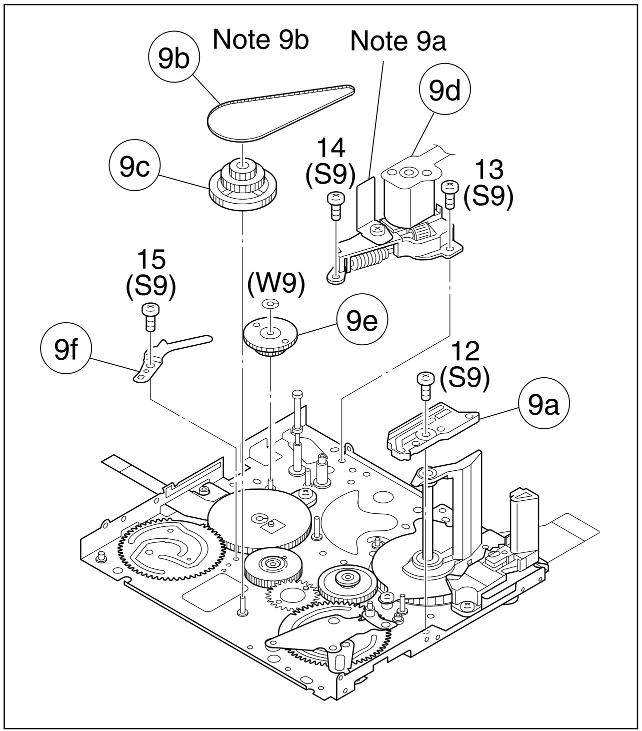

9b
Note 9b
Note 9a
9d
9c
14
(S9)
13
(S9)
15
(S9)
(W9)
9e
9f
12
(S9)
9a

Fig. 2-4-13

Note 9a:
Carefully handle the DEW sensor. (Don't touch the sensor surface in particular.)

Note 9b:
When engaging the timing belt, make sure that it securely engages with the gears of both the center gear assembly and reel drive pulley assembly.

10. 10a Main cam gear/ 10b Brake control plate 10c Rotary encoder/ 10d Connect gear 10e Reel drive pulley assembly

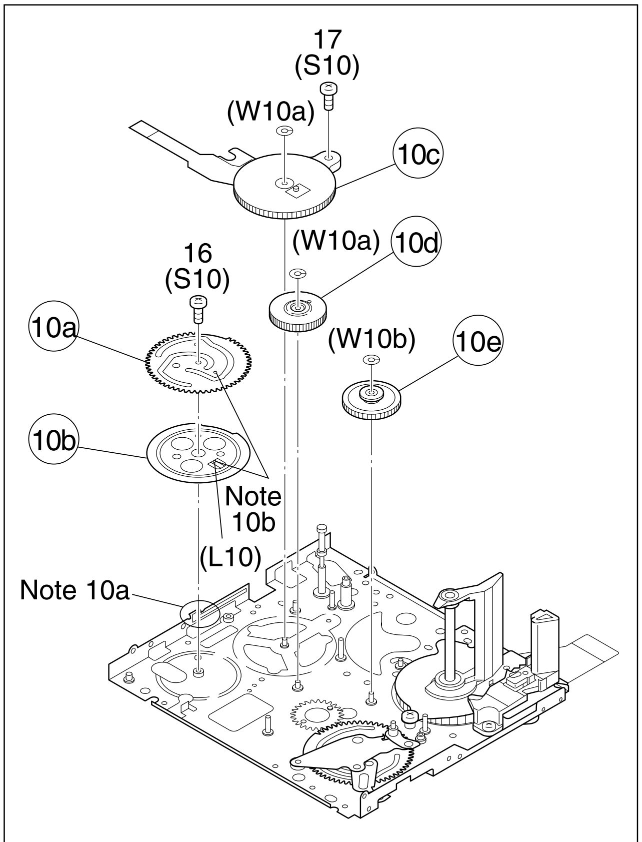
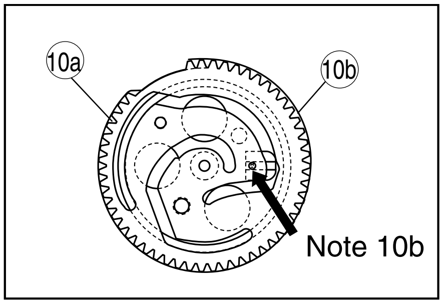

17
(S10)
(W10a)
10c
(W10a)
10d
16
(S10)
10a
(W10b)
10e
10b
Note
10b
(L10)
Note 10a

Fig. 2-4-14

Note 10a:
When removing/refitting parts, pay careful attention to the flexible board and so on not to damage them.

Note 10b:
When reinstalling the main cam gear and the brake control plate, first fit them together so that the protrusion on the brake control plate is set in the slot on the main cam gear as shown below, next install the two together to the main deck assembly.


10a
10b
Note 10b

11. ⓫a Catcher (T) assembly/ 11b Capstan motor 11c Charge arm assembly/ 11d Sub cam gear 11e PWB holder

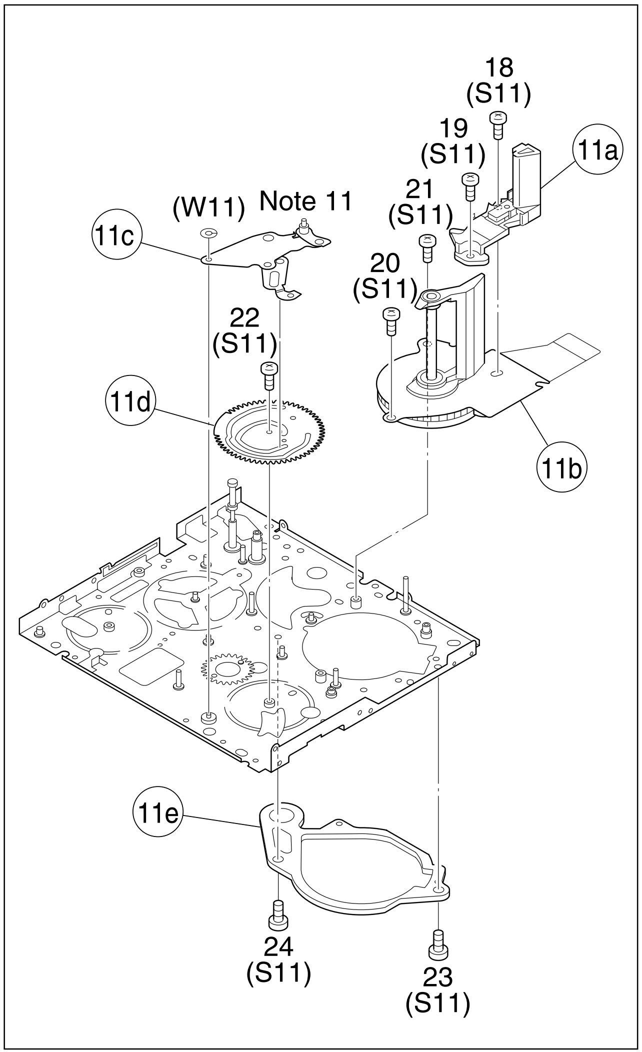
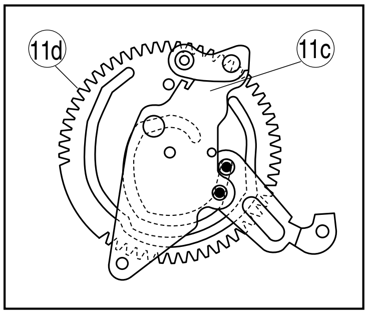

18
(S11)
19
(S11)
11a
21
(S11)
(W11)
Note 11
11c
20
(S11)
22
(S11)
11d
11b
11e
24
(S11)
23
(S11)

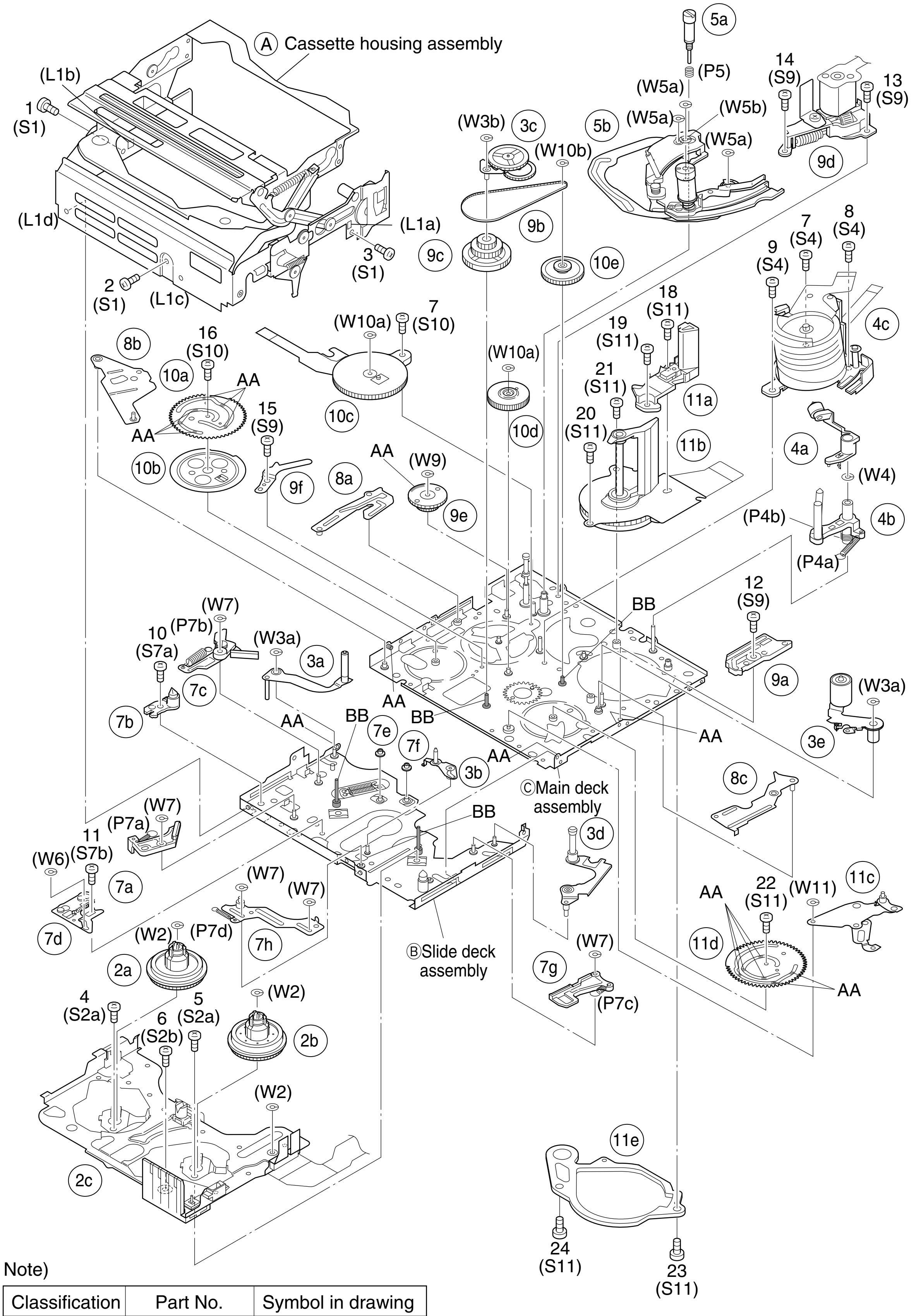
Fig. 2-4-15

Note 11:

The following figure shows how to put the charge arm assembly and sub cam gear assembly together.



2.4.3 List of procedures for disassembly

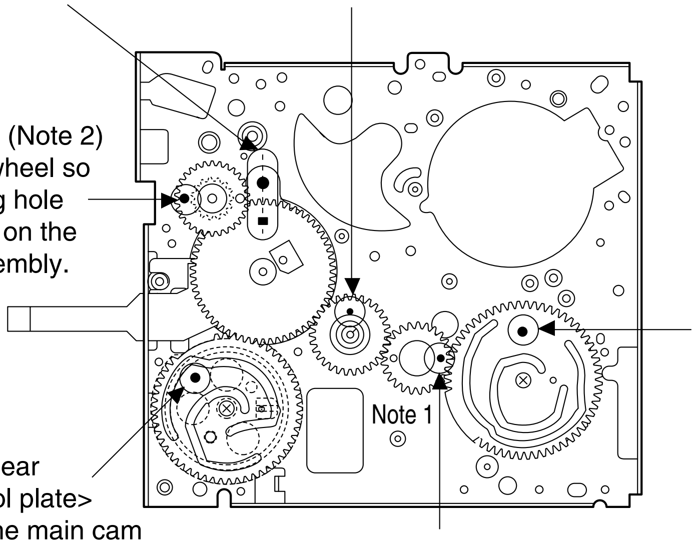

Ⓐ Cassette housing assembly
(L1b)
1
(S1)
(L1d)
(L1a)
3
(S1)
2
(S1)
(L1c)
5a
(P5)
(W5a)
(W5b)
(W5a)
(W5a)
5b
(W3b)
3c
(W10b)
9b
9c
10e
14
(S9)
13
(S9)
9d
7
(S4)
8
(S4)
9
(S4)
4c
8b
16
(S10)
10a
AA
AA
10b
7
(S10)
(W10a)
10c
15
(S9)
9f
(W10a)
10d
8a
AA
(W9)
9e
18
(S11)
19
(S11)
21
(S11)
11a
20
(S11)
11b
4a
(W4)
(P4b)
4b
(P4a)
BB
12
(S9)
9a
(W3a)
3e
(W7)
10
(P7b)
(S7a)
(W3a)
3a
7c
7b
AA
AA
BB
BB
7e
7f
3b
AA
AA
ⒸMain deck assembly
8c
BB
3d
(W7)
(P7a)
11
(S7b)
(W6)
7a
7d
(W7)
(W7)
7h
(W2)
(P7d)
2a
ⒷSlide deck assembly
7g
(W7)
(P7c)
AA
22
(S11)
(W11)
11c
11d
AA
4
(S2a)
5
(S2a)
6
(S2b)
(W2)
2b
(W2)
2c
11e
24
(S11)
23
(S11)

Note)

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-P	AA
Oil	YTU94027	BB

Fig. 2-4-16

2.5 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE



<Rotary encoder>
Set the "■" of the rotary part at the tapped hole as shown in the figure.

<Connect gear> (Note 2)
Set the connect gear so that its locating hole meets the hole on the main deck assembly.

<Worm wheel> (Note 2)
Set the worm wheel so that its locating hole meets the hole on the main deck assembly.

<Sub cam gear>
Set the sub cam gear so that its locating hole meets the hole on the main deck assembly. This state represents that the mechanism is in the EJECT mode, which is the "mechanism assembly mode".

<Main cam gear /Brake control plate>
After fitting the main cam gear and brake control plate together,set them together so that their locating holes meet the hole on the main deck assembly.

<Connect gear 2> (Note 2)
Set the connect gear 2 so that its locating hole meets the hole on the main deck assembly.

Note 1:
Since the connect gear 2 is tightly fixed to the main deck by caulking, adjust its phase with the connect gear and sub cam gear.

Note 2:
The part that needs phase adjustment by the hole on the main deck assembly must exactly be set as the specified phase. There is a fear that some part is installed in a wrong phase because assembling of the mechanism is automated. If so, set every part in the correct phase whenever the mechanism is reassembled.

Fig. 2-5-1

2.6 MECHANISM ADJUSTMENTS

2.6.1 Assembling slide deck assembly and main deck assembly

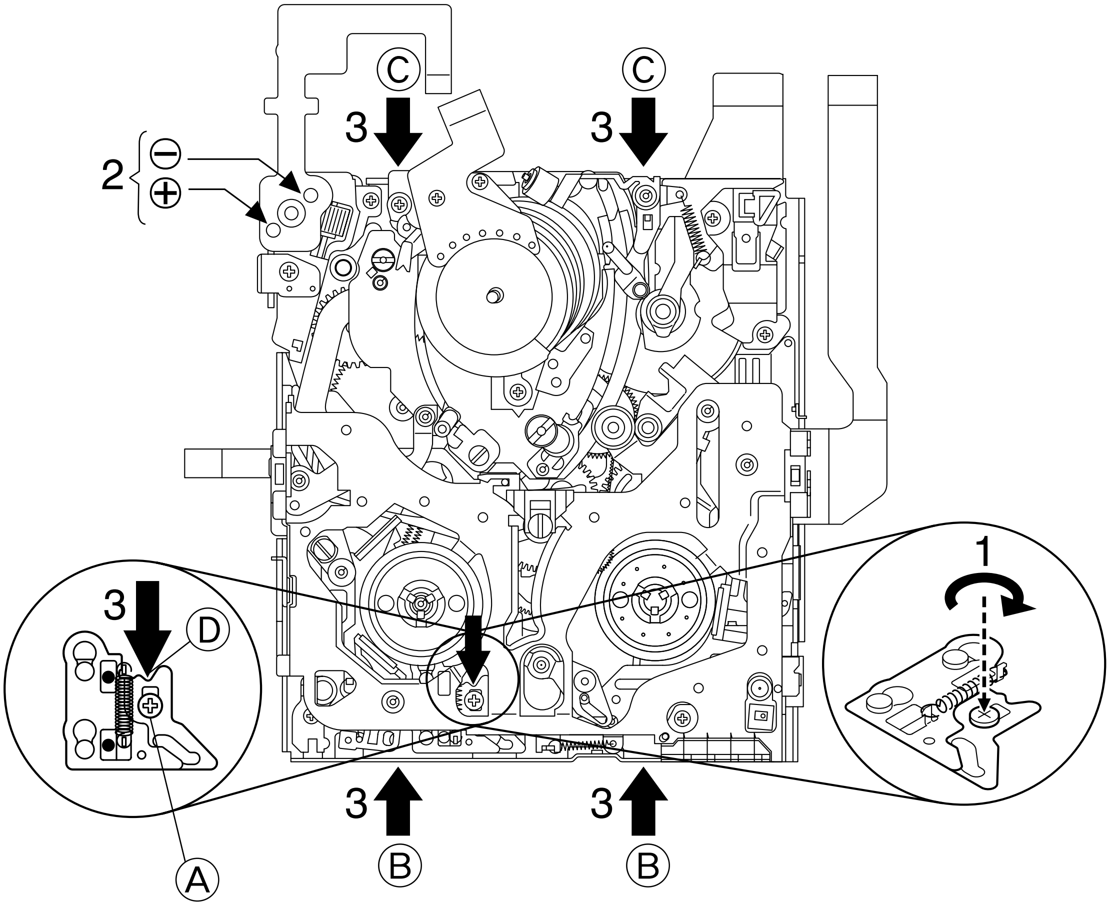


Fig. 2-6-1

Assembling procedure

1. Loosen the screw Ⓐ.
2. Set the mechanism in the PLAY mode.
   (Refer to "2.3.2 Explanation of mechanism mode".)
3. Press the end face Ⓑ of the slide deck assembly (reel disk side) and the end face Ⓒ of the main deck assembly (drum assembly side) with uniform force so that the two assemblies are tightly pressed to each other. Furthermore, press the part Ⓓ and tighten the screw Ⓐ.

Note : *Tightening torque for screw Ⓐ: 0.069 N·m (0.7 kgf·cm)*

2.6.2 Locating tension pole

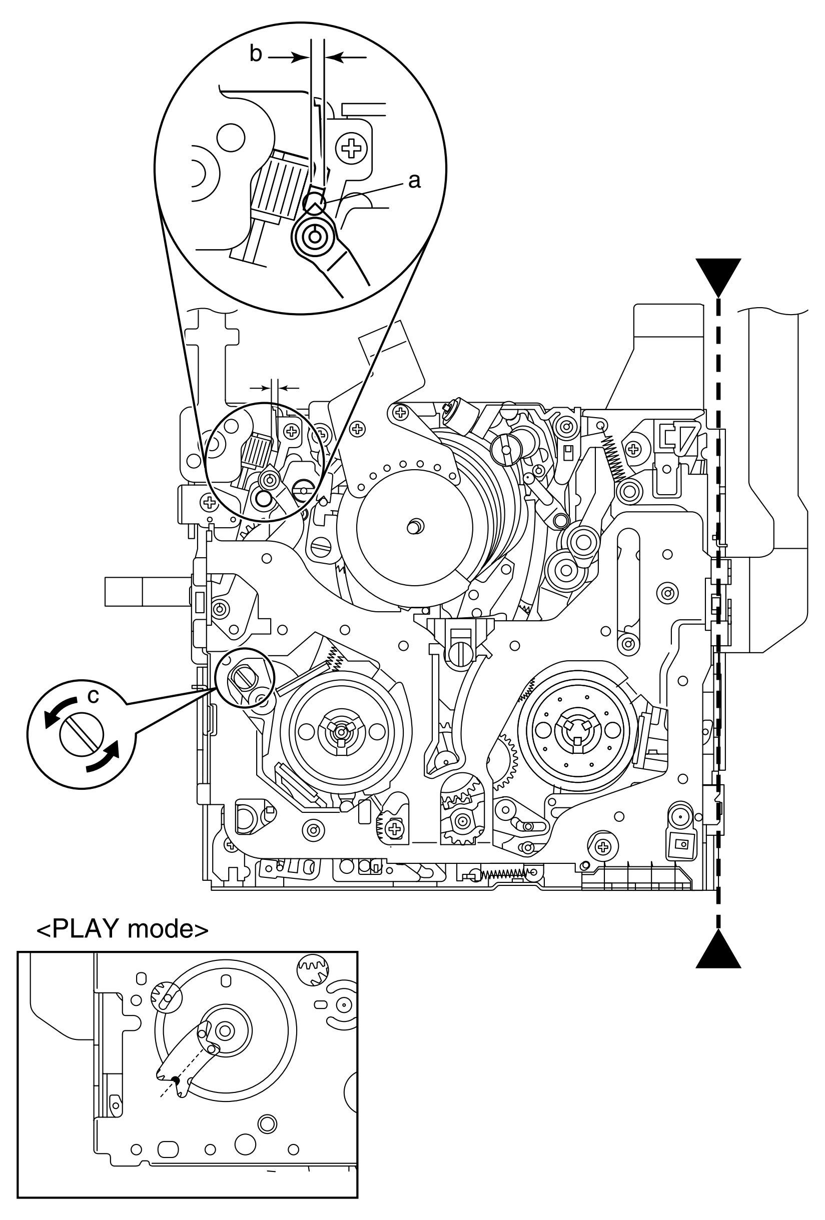


Fig. 2-6-2

Locating procedure

1. Enter the mechanism assembly into the PLAY mode. (Refer to “2.3.2 Explanation of mechanism mode”.)
2. When the “ ▶-----◀ ” part is positioned down, make sure that the part “a” of the tension arm assembly is located within the range of “b”.
3. If the part “a” is out of the range, turn the pin “c” to adjust the position.

2.7 SERVICE NOTE

Use the following chart to manage mechanism parts that are removed for disassembling the mechanism.

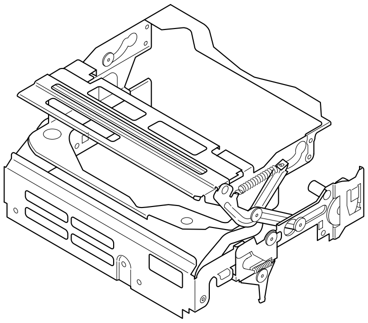
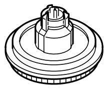
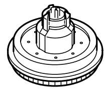
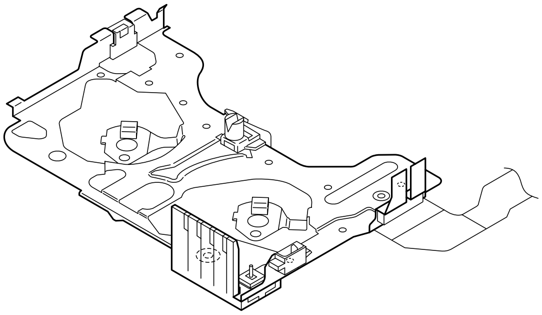
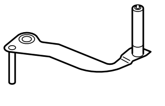
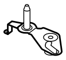
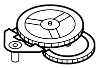
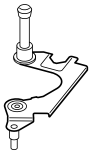
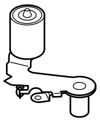
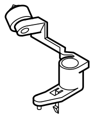
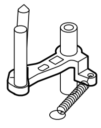
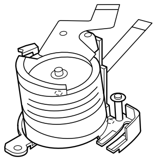
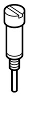
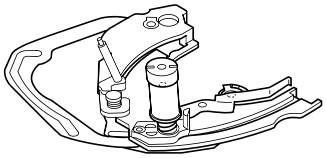
1	A Cassette housing assembly  S1×3				
2	2a Reel disk (SUP) assembly  W2×1 2b Reel disk (TU) assembly  W2×1	2c Reel cover assembly  S2a×2 S2b×1 W2×1			
3	3a Tension arm assembly  W3a×1	3b Release guide assembly 	3c Idler arm assembly  W3b×1	3d Guide arm assembly 	3e Pinch roller arm assembly  W3a×1
4	4a Cleaner arm assembly 	4b Slant pole arm assembly  W4×1 P4a×1 P4b×1	4c Drum assembly  S4×3		
5	5a Guide roller (S) assembly  P5×1	5b Rail assembly  W5a×3 W5b×1			

Table 2-7-1a

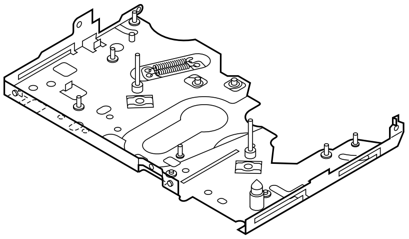
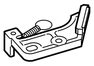
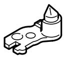
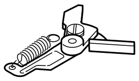
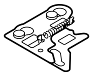
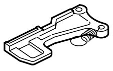
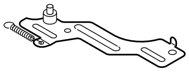
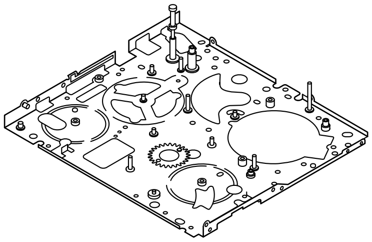
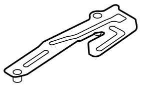
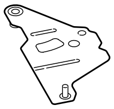
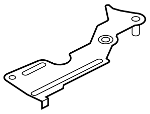
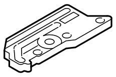
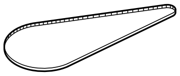
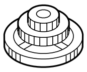
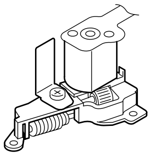
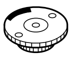
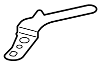
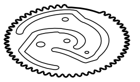
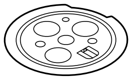
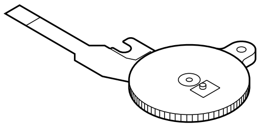
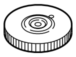
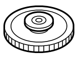
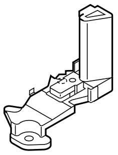
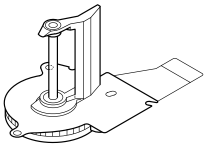
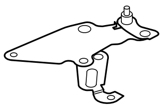
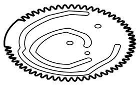
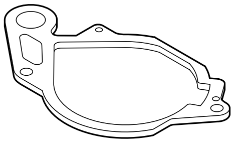
6	B Slide deck assembly  W6×1					
7	7a Loading brake assembly  W7×1 P7a×1	7b Guide pin (S)  S7a×1	7c Pad arm assembly  W7×1 P7b×1	7d Slide guide plate assembly  S7b×1		
	7e Collar 	7f Collar 	7g Sub brake assembly  W7×1 P7c×1	7h Control plate assembly  W7×2 P7d×1		
8	C Main deck assembly 	8a Tension lever assembly 	8b Slide lever assembly 	8c Brake control lever assembly 		
9	9a Loading guide  S9×1	9b Timing belt 	9c Center gear assembly 	9d Motor bracket assembly  S9×2	9e Worm wheel  W9×1	9f Gear holder  S9×1
10	10a Main cam gear  S10×1	10b Brake control plate 	10c Rotary encoder  S10×1 W10a×1	10d Connect gear  W10a×1	10e Reel drive pulley assembly  W10b×1	
11	11a Catcher (T) assembly  S11×2	11b Capstan motor  S11×2	11c Charge arm assembly  W11×1	11d Sub cam gear  S11×1	11e PWB holder  S11×2	

Table 2-7-1b

2.8 JIG CONNECTOR CABLE CONNECTION

Remove one screw (1) first and the cover (JIG) next.

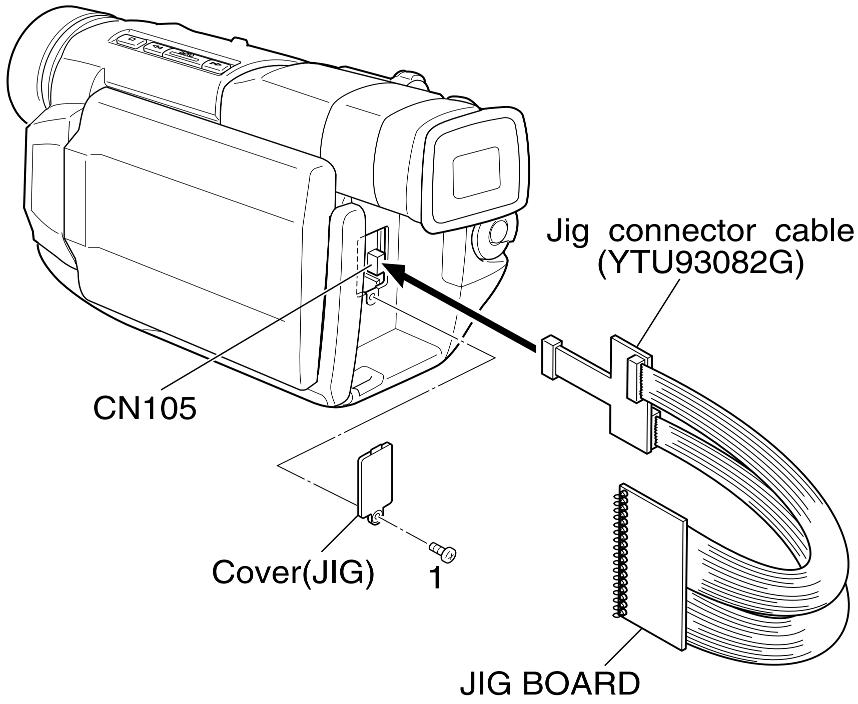
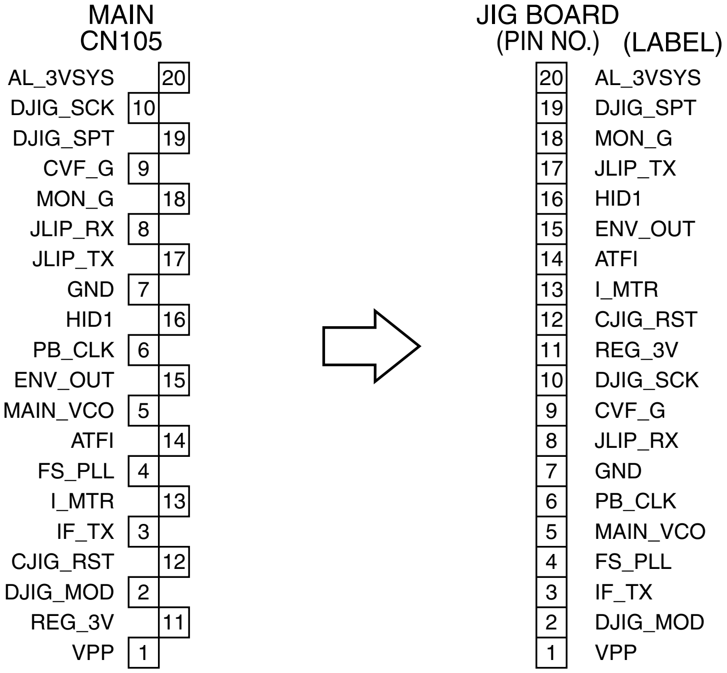

Jig connector cable
(YTU93082G)
CN105
Cover(JIG)
1
JIG BOARD

Fig. 2-8-1 Jig connector cable connection


MAIN
CN105
JIG BOARD
(PIN NO.)
(LABEL)

MAIN CN105	Pin
AL_3VSYS	20
DJIG_SCK	10
DJIG_SPT	19
CVF_G	9
MON_G	18
JLIP_RX	8
JLIP_TX	17
GND	7
HID1	16
PB_CLK	6
ENV_OUT	15
MAIN_VCO	5
ATFI	14
FS_PLL	4
I_MTR	13
IF_TX	3
CJIG_RST	12
DJIG_MOD	2
REG_3V	11
VPP	1

JIG BOARD (PIN NO.)	(LABEL)
20	AL_3VSYS
19	DJIG_SPT
18	MON_G
17	JLIP_TX
16	HID1
15	ENV_OUT
14	ATFI
13	I_MTR
12	CJIG_RST
11	REG_3V
10	DJIG_SCK
9	CVF_G
8	JLIP_RX
7	GND
6	PB_CLK
5	MAIN_VCO
4	FS_PLL
3	IF_TX
2	DJIG_MOD
1	VPP

Fig. 2-8-2 Jig connector cable schematic diagram

SECTION 3
ELECTRICAL ADJUSTMENT

3.1 PRECAUTION

1. Precaution

Both the camera and deck sections of this model needs a personal computer for adjustment except simple adjustment with potentiometers. If some of the following parts is replaced for repair or other reason, the repaired set must be adjusted with a personal computer.

- OP block
- E^{2}PROM (IC1003 of MAIN board)
- MONITOR
- E^{2}PROM (IC7603 of MONITOR board)

In the event of malfunction with electrical circuits, troubleshooting with the aid of proper test instruments most be done first, and then commence necessary repair, replacement and adjustment, etc.

1. In case of wiring to chip test points for measurement, use IC clips, etc. to avoid any stress.
2. Since connectors are fragile, carefully handle them in disconnecting and connecting.
3. Shortcircuit between operation un it and DECK chassis.

2. Required test equipment

1. Color TV monitor.
2. AC power adapter/charger
3. Oscilloscope (dual-trace type, observable 100 MHz or higher frequency)
   Note : *It is recommended to use one observable 300 MHz or higher frequency.*
4. Digital voltmeter
5. Frequency counter (with threshold level adjuster)
6. Personal computer

3. Tools required for adjustments

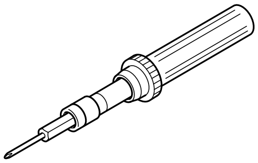
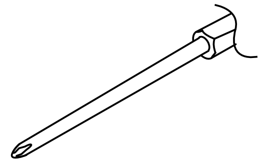
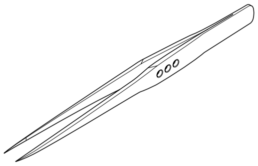
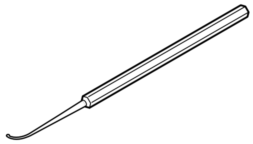
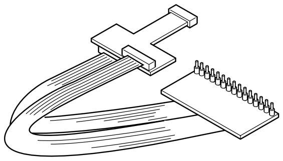
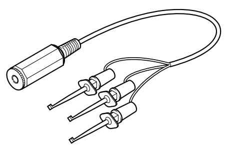
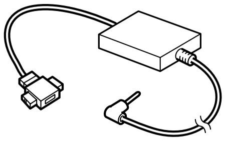
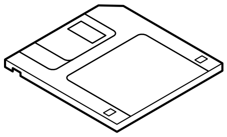
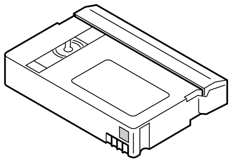
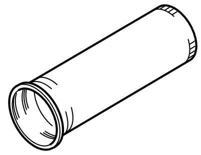
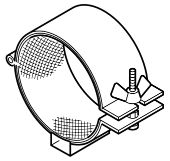
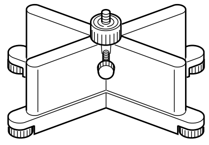
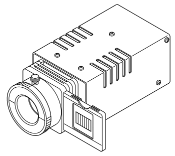
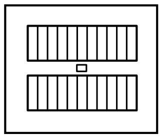
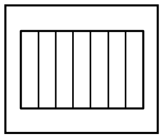
1 Torque Driver YTU94088	2 Bit YTU94088-003
	
3 Tweezers P-895	4 Chip IC Replacement Jig PTS40844-2
	
5 Jig Connector Cable YTU93082G	6 Communication Cable YTU93107A
	
7 PC Cable QAM0099-002	8 Service Support System YTU94057-52
	
9 Alignment Tape MC-2	10 INF Adjustment Lens YTU92001B
	
11 INF Adjustment Lens Holder YTU94087	12 Camera Stand YTU93079
	
13 Light box Assembly YTU93096A	14 Gray Scale Chart YTU94133A
	
15 Color Bar Chart YTU94133C	
	

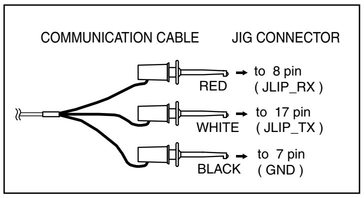
Table 3-1-1

1. **Torque driver**
   Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
2. **Bit**
   This bit is slightly longer than those set in conventional torque drivers.
3. **Tweezers**
   To be used for removing and installing parts and wires.
4. **Chip IC replacement jig**
   To be used for adjustment of the camera system.
5. **Jig connector cable**
   Connected to CN105 of the main board and used for electrical adjustment, etc.
6. **Communication Cable**
   Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
7. **PC cable**
   To be used to connect the VideoMovie and a personal computer with each other when a personal computer is used for adjustment.
8. **Service support system**
   To be used for adjustment with a personal computer.
9. **Alignment tape**
   To be used for check and adjustment of interchangeability of the mechanism.
10. **INF adjustment lens**
    To be used for adjustment of the camera system.
11. **INF adjustment lens holder**
    To be used together with the camera stand for operating the VideoMovie in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring.
12. **Camera stand**
    To be used together with the INF adjustment lens holder.
13. **Light box assembly**
    To be used for adjustment of the camera system.
14. **Gray scale chart (for Light box assembly)**
    To be used for adjustment of the camera system.
15. **Color bar chart (for Light box assembly)**
    To be used for adjustment of the camera system.

3.2 SETUP

1. Setup for electrical adjustment with personal computer.

   NOTE: *Remove one screw (1) first and the cover (JIG) next.*


COMMUNICATION CABLE
JIG CONNECTOR
RED
to 8 pin
(JLIP_RX)
WHITE
to 17 pin
(JLIP_TX)
BLACK
to 7 pin
(GND)

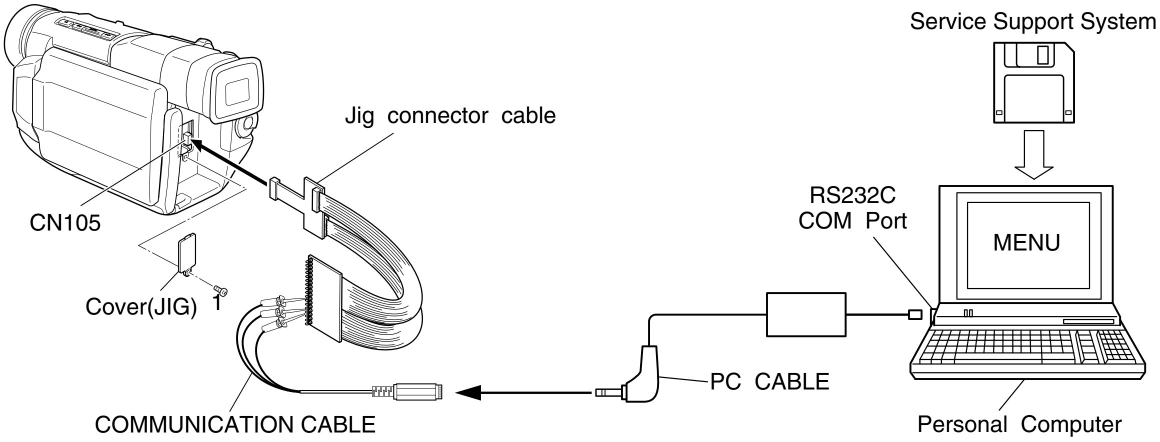

Service Support System
Jig connector cable
RS232C
COM Port
MENU
CN105
Cover(JIG)
1
PC CABLE
COMMUNICATION CABLE
Personal Computer

Fig. 3-2-1 Connection for Service support system

SECTION 4
CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions
The Components identified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

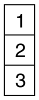
1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ (1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

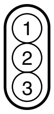
AUX : Active at high.

$\overline{\text{AUX}}$ or AUX(L) : Active at low.

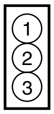
3. Interpreting Connector indications



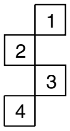
Removable connector



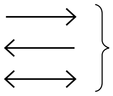
Wire soldered directly on board



Non-removable Board connector



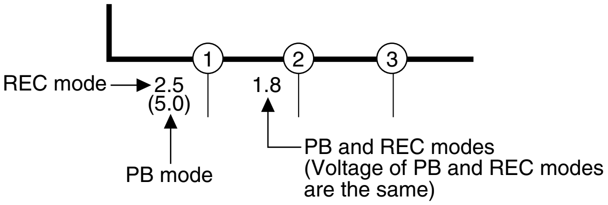
Board to Board



Connected pattern on board
The arrows indicate signal path

4. Voltage measurement

1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
4) Indication on schematic diagram
   Voltage Indications for REC and PB mode on the schematic diagram are as shown below.



Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

5. Signal path Symbols

The arrows indicate the signal path as follows.

NOTE : The arrow is DVC unique object.

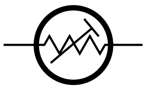
⇨	Playback signal path
⇨ (black head)	Playback and recording signal path
➡	Recording signal path (including E-E signal path)
⇨▷	Capstan servo path
➡▶	Drum servo path

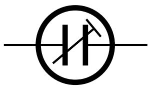
(Example)

⇨ R-Y	Playback R-Y signal path
➡ Y	Recording Y signal path

6. Indication of the parts for adjustments

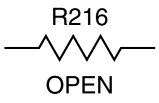
The parts for the adjustments are surrounded with the circle as shown below.





7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.



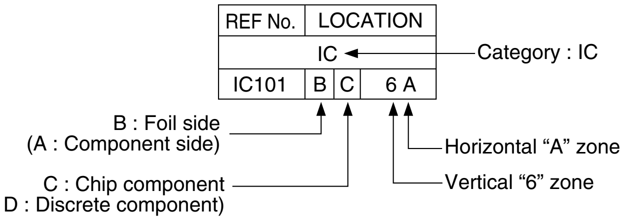
CIRCUIT BOARD NOTES

1. Foil and Component sides

1) Foil side (B side) :
   Parts on the foil side seen from foil face (pattern face) are indicated.
2) Component side (A side) :
   Parts on the component side seen from component face (parts face) indicated.

2. Parts location guides

Parts location are indicated by guide scale on the circuit board.

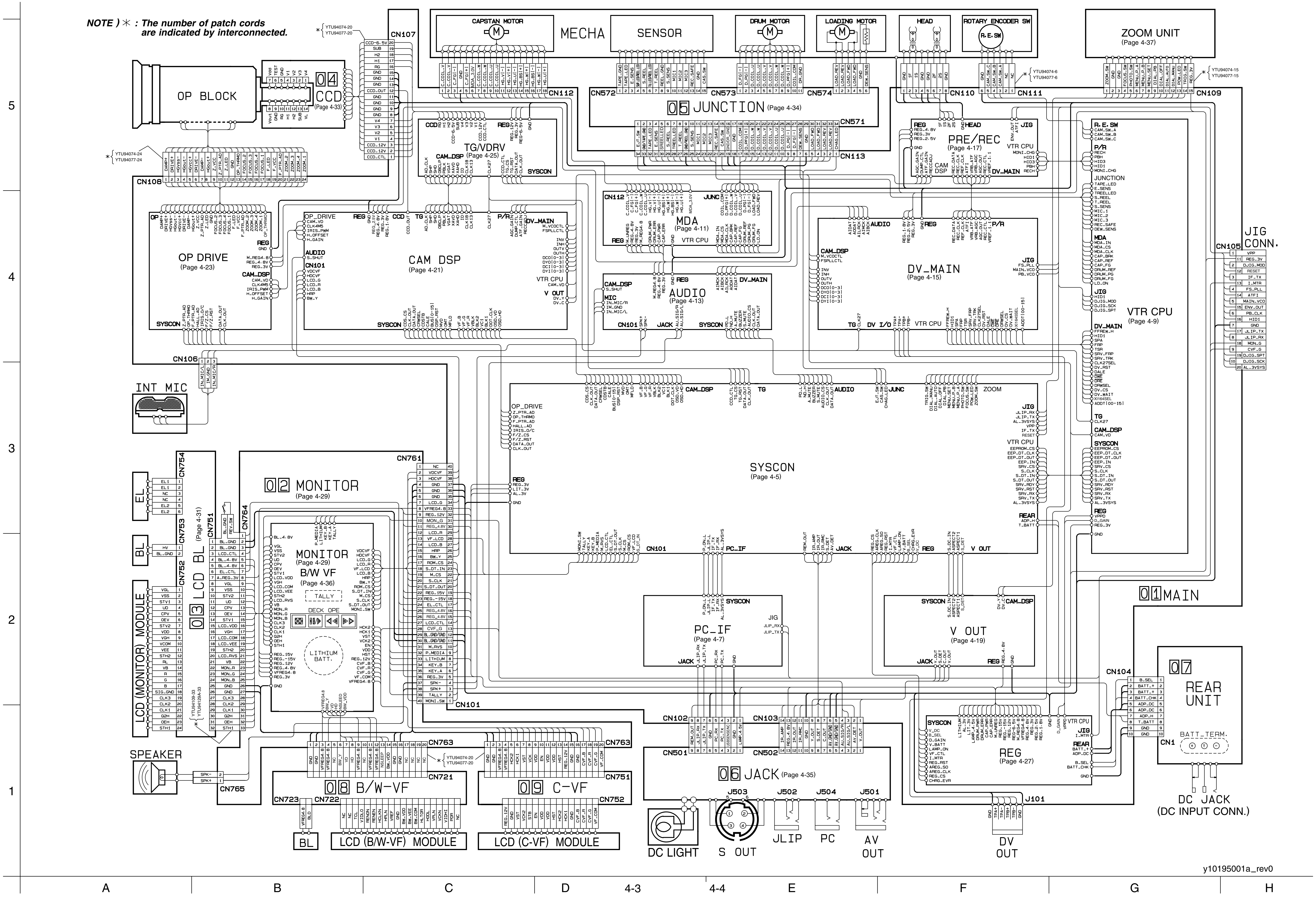


REF No.
LOCATION
IC
Category : IC
IC101
B
C
6 A
B : Foil side
(A : Component side)
C : Chip component
D : Discrete component)
Horizontal “A” zone
Vertical “6” zone

Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

4.1 BOARD INTERCONNECTIONS

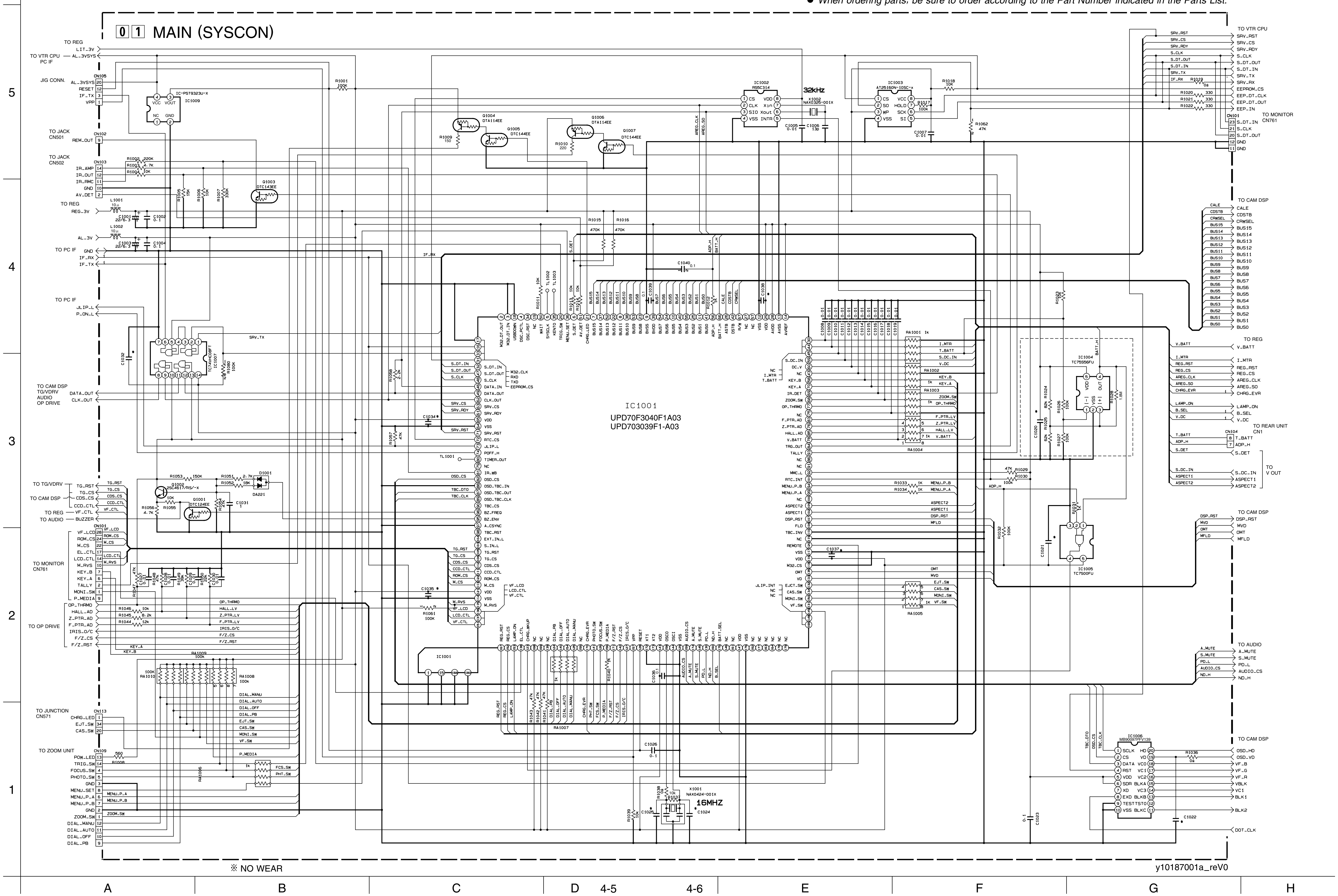
NOTE) ✻ : The number of patch cords are indicated by interconnected.



OP BLOCK
04 CCD (Page 4-33)
CN107
CN108
MECHA
CAPSTAN MOTOR
SENSOR
DRUM MOTOR
LOADING MOTOR
HEAD
ROTARY ENCODER SW
R.E.SW
ZOOM UNIT (Page 4-37)
CN112
CN572
CN573
CN574
CN110
CN111
CN109
05 JUNCTION (Page 4-34)
CN571
CN113
TG/VDRV
CAM_DSP (Page 4-25)
PRE/REC (Page 4-17)
MDA (Page 4-11)
OP DRIVE (Page 4-23)
CAM DSP (Page 4-21)
AUDIO (Page 4-13)
DV_MAIN (Page 4-15)
VTR CPU (Page 4-9)
JIG CONN.
CN105
CN106
INT MIC
SYSCON (Page 4-5)
CN761
02 MONITOR (Page 4-29)
MONITOR (Page 4-29)
B/W VF (Page 4-36)
TALLY
DECK OPE
LITHIUM BATT.
CN754
EL
BL
CN753
CN752
CN751
CN764
03 LCD BL (Page 4-31)
LCD (MONITOR) MODULE
CN101
PC_IF (Page 4-7)
V OUT (Page 4-19)
01 MAIN
CN104
07 REAR UNIT
BATT_TERM.
CN1
DC JACK (DC INPUT CONN.)
REG (Page 4-27)
CN102
CN103
CN501
CN502
06 JACK (Page 4-35)
J503
J502
J504
J501
J101
DC LIGHT
S OUT
JLIP
PC
AV OUT
DV OUT
SPEAKER
CN765
CN763
CN721
08 B/W-VF
CN723
CN722
BL
LCD (B/W-VF) MODULE
CN751
09 C-VF
CN752
LCD (C-VF) MODULE
YTU94074-20
YTU94077-20
YTU94074-24
YTU94077-24
YTU94074-6
YTU94077-6
YTU94074-15
YTU94077-15
YTU94109-33
YTU94129A-33
1
2
3
4
5
A
B
C
D
E
F
G
H
y10195001a_rev0

4.2 SYSCON SCHEMATIC DIAGRAM

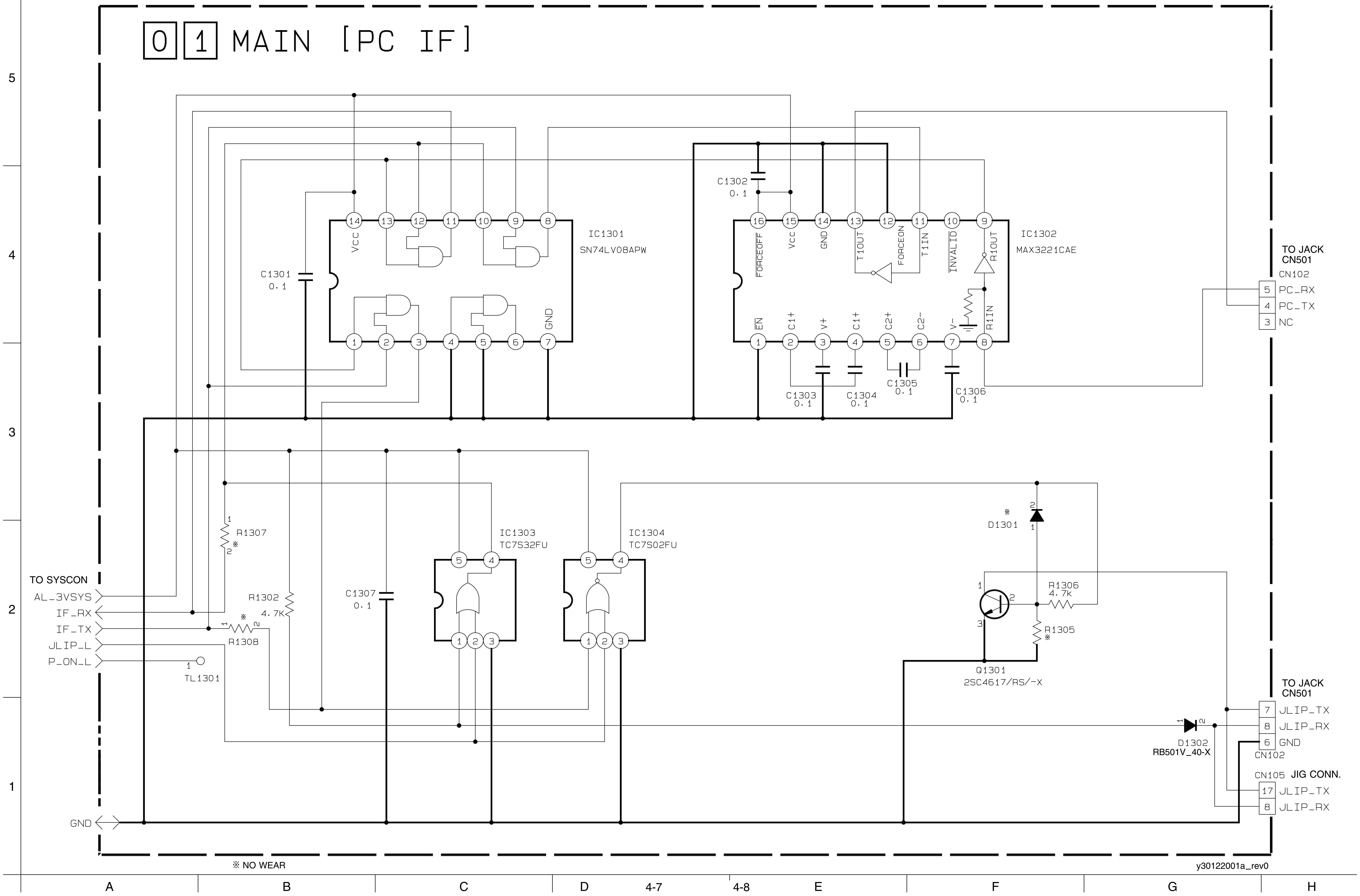
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



01 MAIN (SYSCON)
IC1001
UPD70F3040F1A03
UPD703039F1-A03
IC1002 RS5C314
IC1003 AT25160N-10SC-x
IC1004 TC75S56FU
IC1005 TC7S00FU
IC1006 MB90097PFV139
IC1007 TC74VHC08FT
IC1009 IC-PST9323U-x
32kHz
X1002 NAX0325-001X
X1001 NAX0424-001X
16MHZ
Q1001 DTC124EE
Q1002 2SC4617/RS/-X
Q1003 DTC143EE
Q1004 DTA114EE
Q1005 DTC144EE
Q1006 DTA114EE
Q1007 DTC144EE
D1001 DA221
TO REG
TO VTR CPU PC IF
JIG CONN.
TO JACK CN501
TO JACK CN502
TO PC IF
TO CAM DSP TG/VDRV AUDIO OP DRIVE
TO TG/VDRV
TO CAM DSP
TO AUDIO
TO MONITOR CN761
TO OP DRIVE
TO JUNCTION CN571
TO ZOOM UNIT
TO VTR CPU
TO MONITOR CN761
TO CAM DSP
TO REG
TO REAR UNIT CN1
TO V OUT
TO CAM DSP
TO AUDIO
TO CAM DSP
※ NO WEAR
y10187001a_reV0
A
B
C
D
E
F
G
H
1
2
3
4
5

4.3 PC IF SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



0 1 MAIN [PC IF]
IC1301
SN74LV08APW
Vcc
GND
C1301
0.1
IC1302
MAX3221CAE
FORCEOFF
Vcc
GND
T1OUT
FORCEON
T1IN
INVALID
R1OUT
EN
C1+
V+
C1+
C2+
C2-
V-
R1IN
C1302
0.1
C1303
0.1
C1304
0.1
C1305
0.1
C1306
0.1
TO JACK
CN501
CN102
5 PC_RX
4 PC_TX
3 NC
TO SYSCON
AL_3VSYS
IF_RX
IF_TX
JLIP_L
P_ON_L
GND
R1307
R1302
4.7K
R1308
TL1301
C1307
0.1
IC1303
TC7S32FU
IC1304
TC7S02FU
D1301
R1306
4.7k
R1305
Q1301
2SC4617/RS/-X
TO JACK
CN501
7 JLIP_TX
8 JLIP_RX
6 GND
CN102
D1302
RB501V_40-X
CN105 JIG CONN.
17 JLIP_TX
8 JLIP_RX
※ NO WEAR
y30122001a_rev0
1
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4
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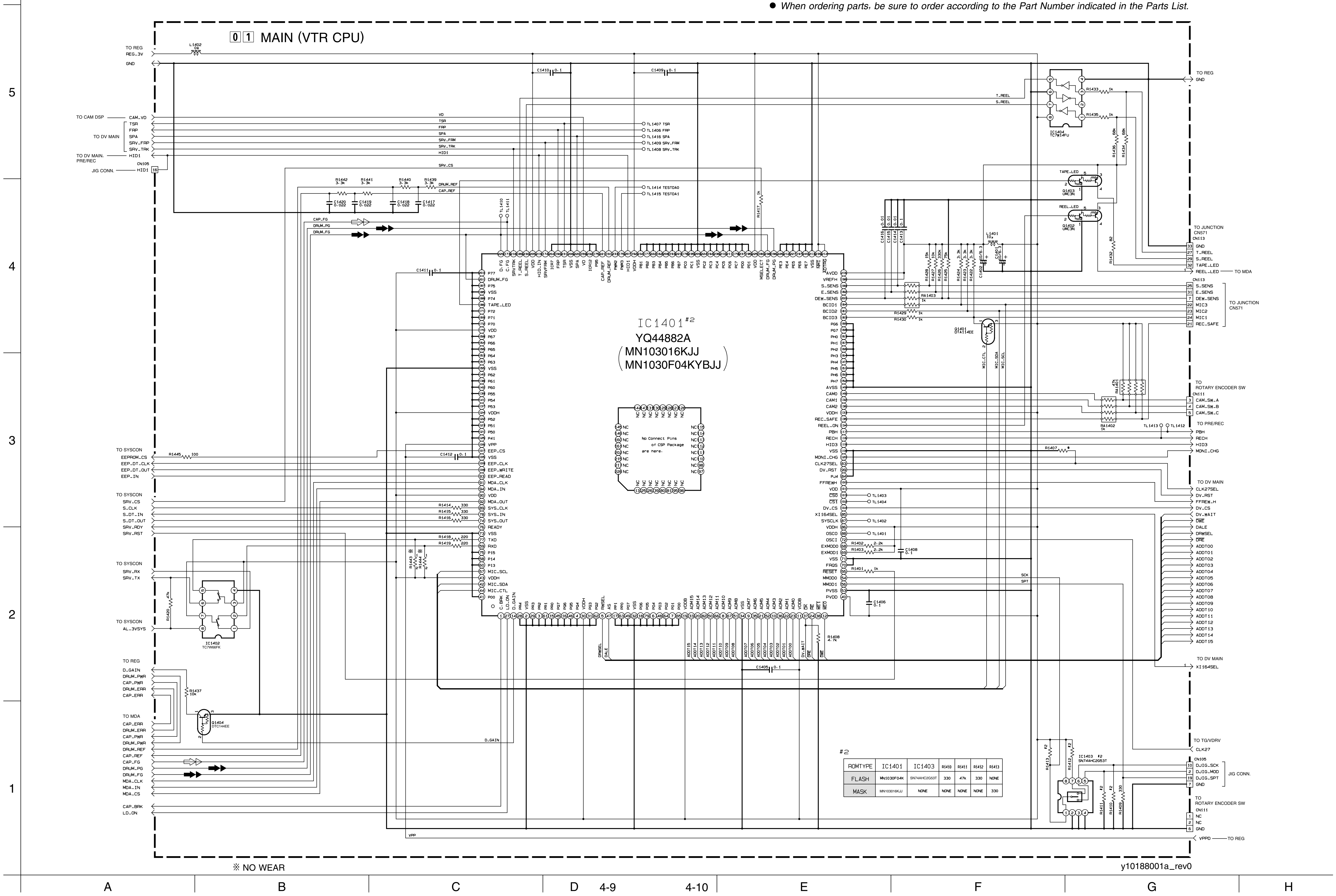
A
B
C
D
E
F
G
H

4.4 VTR CPU SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



01 MAIN (VTR CPU)
IC1401#2
YQ44882A
(MN103016KJJ
MN1030F04KYBJJ)
TO REG
REG_3V
GND
TO CAM DSP
CAM_VD
TO DV MAIN
TSR
FRP
SPA
SRV_FRM
SRV_TRK
TO DV MAIN, PRE/REC
HID1
CN105
JIG CONN.
TO SYSCON
EEPROM_CS
EEP_DT_CLK
EEP_DT_OUT
EEP_IN
SRV_CS
S_CLK
S_DT_IN
S_DT_OUT
SRV_RDY
SRV_RST
SRV_RX
SRV_TX
AL_3VSYS
IC1402
TC7W66FK
R1420
47k
TO REG
D_GAIN
DRUM_PWR
CAP_PWR
DRUM_ERR
CAP_ERR
R1437
10k
Q1404
DTC144EE
TO MDA
CAP_ERR
DRUM_ERR
CAP_PWR
DRUM_PWR
DRUM_REF
CAP_REF
CAP_FG
DRUM_PG
DRUM_FG
MDA_CLK
MDA_IN
MDA_CS
CAP_BRK
LD_ON
VPP
L1402
TL1407 TSR
TL1406 FRP
TL1416 SPA
TL1409 SRV_FRM
TL1408 SRV_TRK
TL1414 TESTDA0
TL1415 TESTDA1
No Connect Pins of CSP Package are here.
IC1404
TC7W14FU
R1433 1k
R1435 1k
TAPE_LED
Q1403
UMC3N
REEL_LED
Q1402
UMC3N
Q1401
DTA114EE
L1401
TO JUNCTION
CN571
CN113
GND
T_REEL
S_REEL
TAPE_LED
REEL_LED
TO MDA
S_SENS
E_SENS
DEW_SENS
MIC3
MIC2
MIC1
REC_SAFE
TO ROTARY ENCODER SW
CN111
CAM_SW_A
CAM_SW_B
CAM_SW_C
RA1402
TL1413
TL1412
TO PRE/REC
PBH
RECH
HID3
MONI_CHG
TO DV MAIN
CLK27SEL
DV_RST
FFREW_H
DV_CS
DV_WAIT
DRE
DALE
DRWSEL
DWE
ADDT00
ADDT01
ADDT02
ADDT03
ADDT04
ADDT05
ADDT06
ADDT07
ADDT08
ADDT09
ADDT10
ADDT11
ADDT12
ADDT13
ADDT14
ADDT15
TO DV MAIN
XI164SEL
TO TG/VDRV
CLK27
CN105
DJIG_SCK
DJIG_MOD
DJIG_SPT
GND
JIG CONN.
TO ROTARY ENCODER SW
CN111
NC
NC
GND
VPPD
TO REG
IC1403 #2
SN74AHC2G53T
R1413 #2
R1412 #2
R1411 #2
R1410 #2
R1409 330
C1405 0.1
C1406 0.1
C1408 0.1
R1408 4.7k
R1401 1k
R1402 2.2k
R1403 2.2k
R1407
R1445 100
R1414 330
R1415 330
R1416 330
R1418 220
R1419 220
R1443
R1444
1
2
3
4
5
A
B
C
D
E
F
G
H

#2

ROMTYPE	IC1401	IC1403	R1410	R1411	R1412	R1413
FLASH	MN1030F04K	SN74AHC2G53T	330	47k	330	NONE
MASK	MN103016KJJ	NONE	NONE	NONE	NONE	330

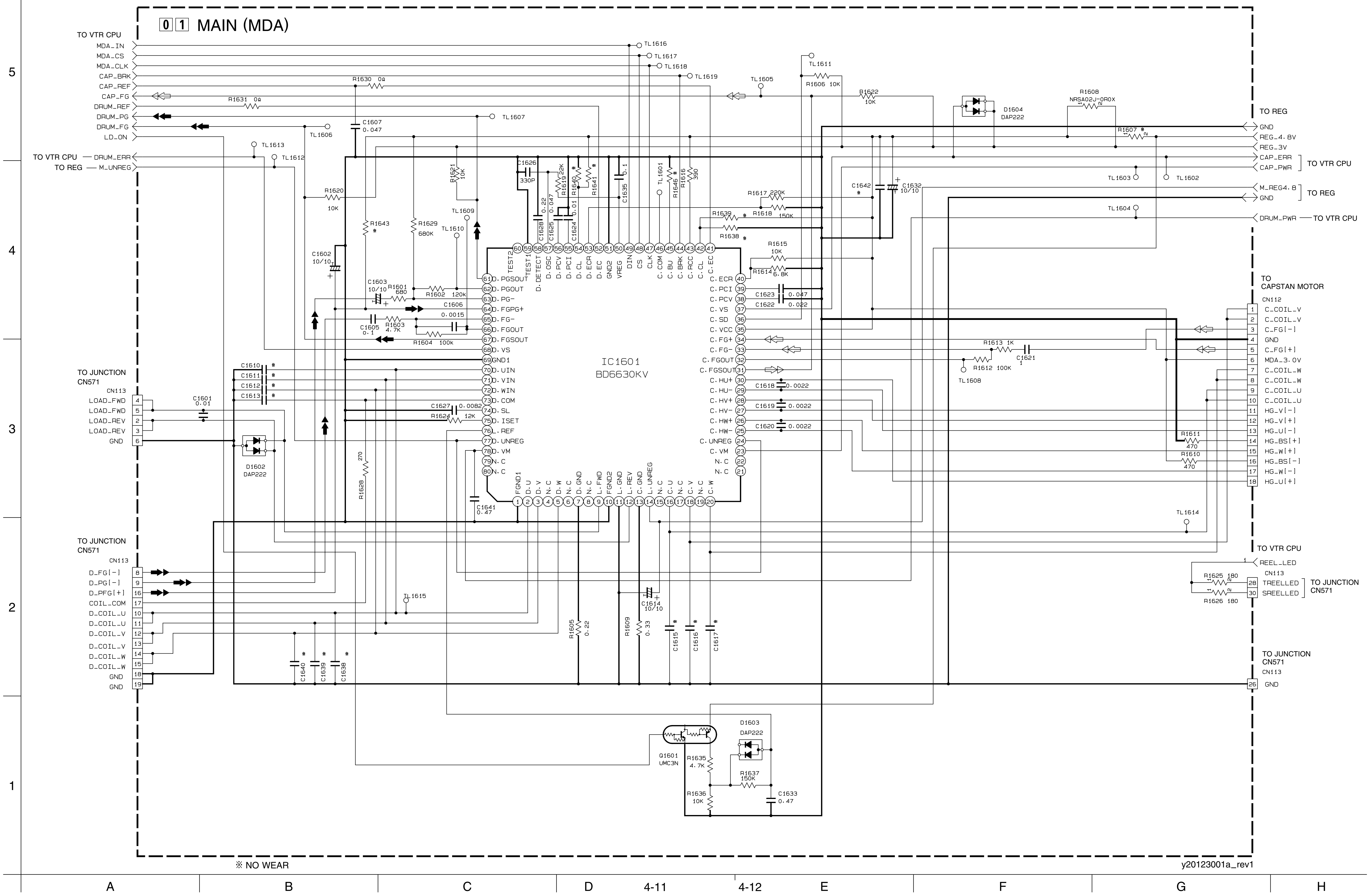
※ NO WEAR

y10188001a_rev0

4.5 MDA SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*

● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



01 MAIN (MDA)
TO VTR CPU
MDA_IN
MDA_CS
MDA_CLK
CAP_BRK
CAP_REF
CAP_FG
DRUM_REF
DRUM_PG
DRUM_FG
LD_ON
TO VTR CPU — DRUM_ERR
TO REG — M_UNREG
TO JUNCTION CN571
CN113
LOAD_FWD
LOAD_REV
GND
D_FG[-]
D_PG[-]
D_PFG[+]
COIL_COM
D_COIL_U
D_COIL_V
D_COIL_W
IC1601
BD6630KV
D1602 DAP222
D1603 DAP222
D1604 DAP222
Q1601 UMC3N
TL1601
TL1602
TL1603
TL1604
TL1605
TL1606
TL1607
TL1608
TL1609
TL1610
TL1611
TL1612
TL1613
TL1614
TL1615
TL1616
TL1617
TL1618
TL1619
R1630 0Ω
R1631 0Ω
R1606 10K
R1622 10K
R1608 NRSA02J-0R0X
R1607 ※
R1620 10K
R1621 10K
R1643 ※
R1629 680K
R1601 680
R1602 120k
R1603 4.7K
R1604 100k
R1624 12K
R1628 270
R1619 22K
R1640 ※
R1641 ※
R1645 ※
R1616 390
R1617 220K
R1618 150K
R1639 ※
R1638 ※
R1615 10K
R1614 6.8K
R1613 1K
R1612 100K
R1611 470
R1610 470
R1605 0.22
R1609 0.33
R1625 180
R1626 180
R1635 4.7K
R1636 10K
R1637 150K
C1607 0.047
C1626 330P
C1628 0.22
C1625 0.047
C1624 0.01
C1635 0.1
C1642 ※
C1632 10/10
C1602 10/10
C1603 10/10
C1606 0.0015
C1605 0.1
C1610 ※
C1611 ※
C1612 ※
C1613 ※
C1601 0.01
C1627 0.0082
C1623 0.047
C1622 0.022
C1621 1
C1618 0.0022
C1619 0.0022
C1620 0.0022
C1641 0.47
C1614 10/10
C1615 ※
C1616 ※
C1617 ※
C1640 ※
C1639 ※
C1638 ※
C1633 0.47
TO REG
GND
REG_4.8V
REG_3V
CAP_ERR
CAP_PWR
TO VTR CPU
M_REG4.8
DRUM_PWR
TO CAPSTAN MOTOR
CN112
C_COIL_V
C_FG[-]
C_FG[+]
MDA_3.0V
C_COIL_W
C_COIL_U
HG_V[-]
HG_V[+]
HG_U[-]
HG_BS[+]
HG_W[+]
HG_BS[-]
HG_W[-]
HG_U[+]
REEL_LED
TREELLED
SREELLED
1
2
3
4
5
A
B
C
D
E
F
G
H

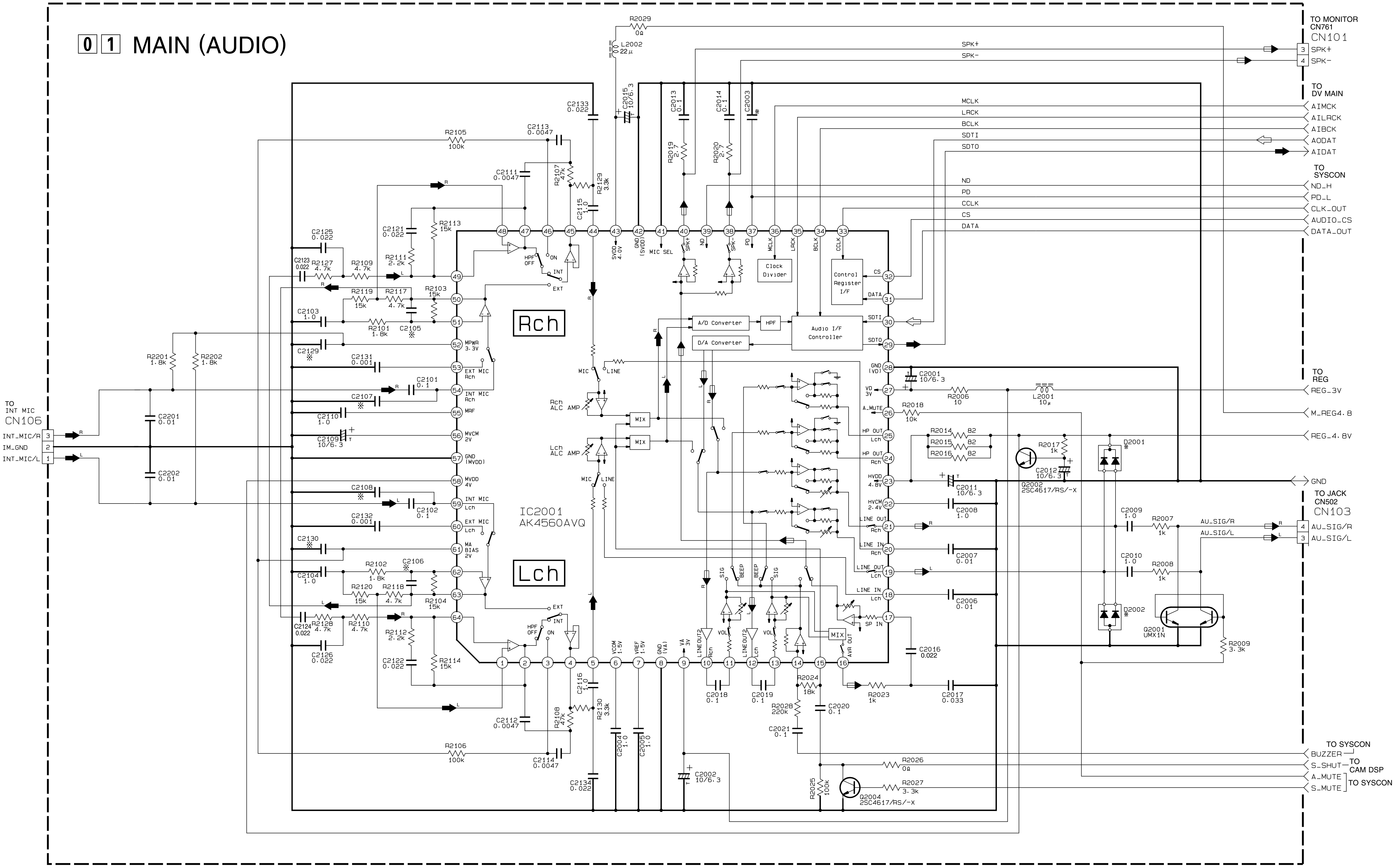
※ NO WEAR

y20123001a_rev1

4.6 AUDIO SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*

● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



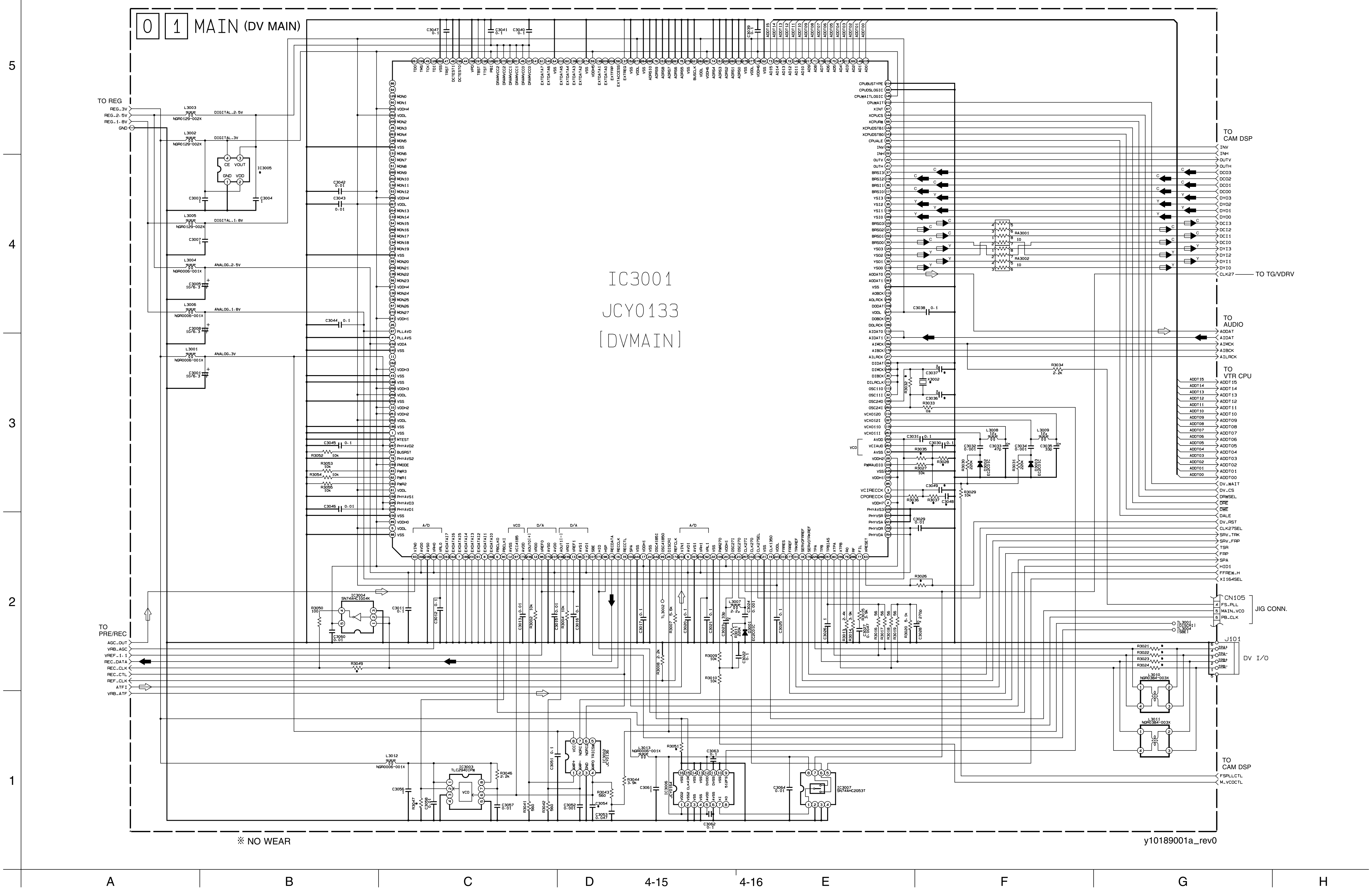
01 MAIN (AUDIO)
Rch
Lch
IC2001
AK4560AVQ
TO INT MIC
CN106
INT_MIC/R 3
IM_GND 2
INT_MIC/L 1
TO MONITOR CN761
CN101
3 SPK+
4 SPK-
TO DV MAIN
AIMCK
AILRCK
AIBCK
AODAT
AIDAT
TO SYSCON
ND_H
PD_L
CLK_OUT
AUDIO_CS
DATA_OUT
TO REG
REG_3V
M_REG4.8
REG_4.8V
GND
TO JACK CN502
CN103
4 AU_SIG/R
3 AU_SIG/L
TO SYSCON
BUZZER
S_SHUT
TO CAM DSP
A_MUTE
S_MUTE
TO SYSCON
SPK+
SPK-
MCLK
LRCK
BCLK
SDTI
SDTO
ND
PD
CCLK
CS
DATA
AU_SIG/R
AU_SIG/L
Clock Divider
Control Register I/F
A/D Converter
HPF
Audio I/F Controller
D/A Converter
MIX
Rch ALC AMP
Lch ALC AMP
MIC
LINE
HPF OFF
ON
INT
EXT
VOL
SIG
BEEP
SVDD 4.0V
GND (SVDD)
MIC SEL
MPWR 3.3V
EXT MIC Rch
INT MIC Rch
MRF
MVCM 2V
GND (MVDD)
MVDD 4V
INT MIC Lch
EXT MIC Lch
MA BIAS 2V
VCOM 1.5V
VREF 1.5V
GND (VA)
VA 3V
LINEOUT2 Rch
LINEOUT2 Lch
AVR OUT
SP IN
LINE IN Lch
LINE OUT Lch
LINE IN Rch
LINE OUT Rch
HVCM 2.4V
HVDD 4.8V
HP OUT Rch
HP OUT Lch
A_MUTE
VD 3V
GND (VD)
R2029 0Ω
L2002 22µ
C2015 10/6.3
C2133 0.022
C2113 0.0047
C2111 0.0047
R2105 100k
R2107 47k
R2129 3.3k
C2115 1.0
C2013 0.1
C2014 0.1
C2003 ※
R2019 2.7
R2020 2.7
C2125 0.022
C2123 0.022
R2127 4.7k
R2109 4.7k
C2121 0.022
R2111 2.2k
R2113 15k
R2119 15k
R2117 4.7k
R2103 15k
C2103 1.0
R2101 1.8k
C2105 ※
C2129 ※
C2131 0.001
C2101 0.1
C2107 ※
C2110 1.0
C2109 10/6.3
R2201 1.8k
R2202 1.8k
C2201 0.01
C2202 0.01
C2108 ※
C2102 0.1
C2132 0.001
C2130 ※
R2102 1.8k
C2106 ※
C2104 1.0
R2120 15k
R2118 4.7k
R2104 15k
C2124 0.022
R2128 4.7k
R2110 4.7k
R2112 2.2k
C2126 0.022
C2122 0.022
R2114 15k
C2112 0.0047
R2108 47k
R2130 3.3k
C2116 1.0
R2106 100k
C2114 0.0047
C2134 0.022
C2004 1.0
C2005 1.0
C2002 10/6.3
C2018 0.1
C2019 0.1
R2024 18k
R2028 220k
C2020 0.1
C2021 0.1
R2023 1k
C2016 0.022
C2017 0.033
R2026 0Ω
R2027 3.3k
R2025 100k
Q2004 2SC4617/RS/-X
C2001 10/6.3
R2006 10
L2001 10µ
R2018 10k
R2014 82
R2015 82
R2016 82
R2017 1k
C2012 10/6.3
Q2002 2SC4617/RS/-X
C2011 10/6.3
C2008 1.0
C2007 0.01
C2006 0.01
D2001 ※
D2002 ※
C2009 1.0
R2007 1k
C2010 1.0
R2008 1k
Q2001 UMX1N
R2009 3.3k
1 2 3 4 5
A B C D E F G H

※ NO WEAR

y20125001a_rev0

4.7 DV MAIN SCHEMATIC DIAGRAM

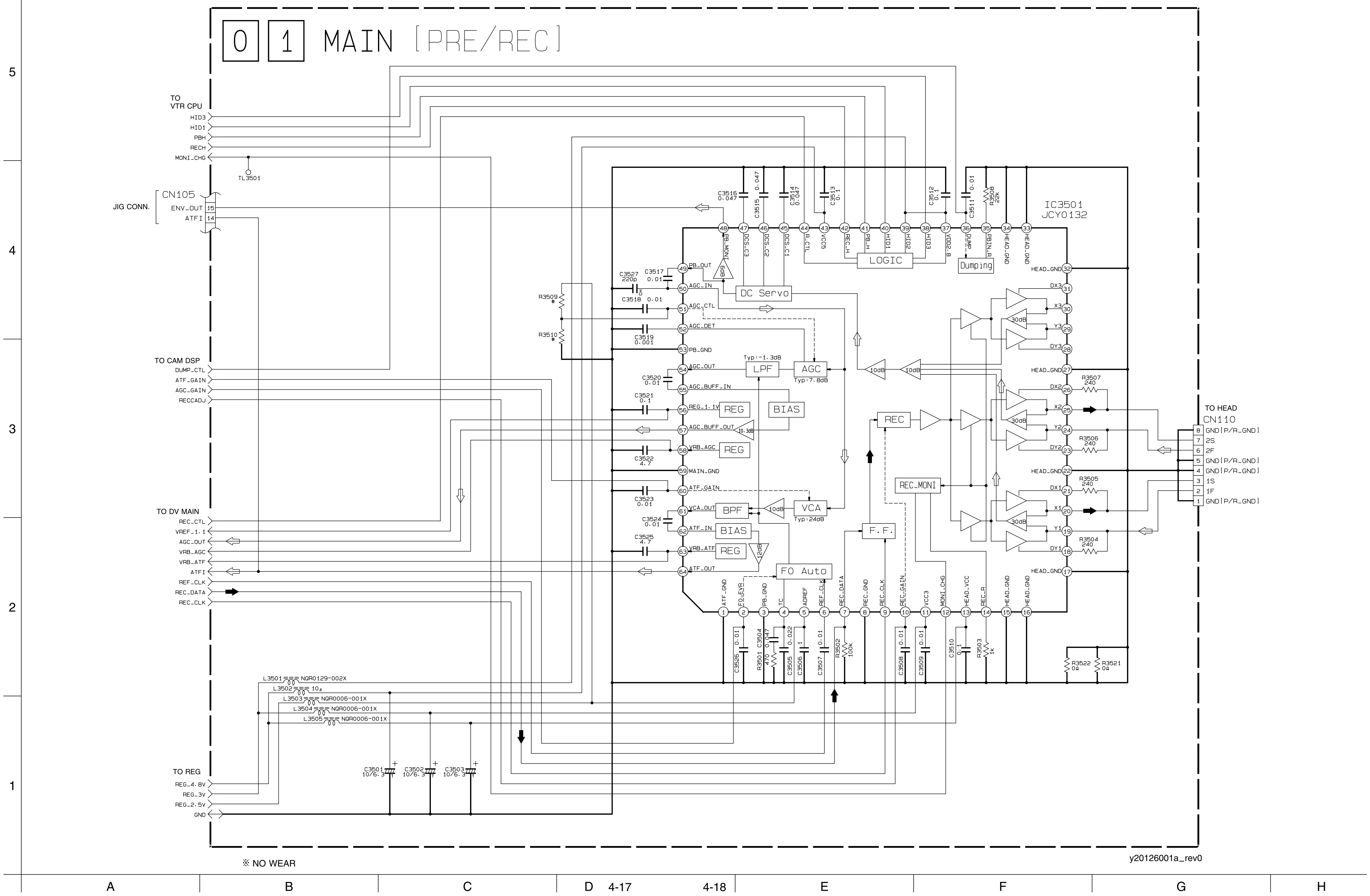
NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



0 1 MAIN (DV MAIN)
IC3001
JCY0133
[DVMAIN]
TO REG
REG_3V
REG_2.5V
REG_1.8V
GND
DIGITAL_2.5V
DIGITAL_3V
DIGITAL_1.8V
ANALOG_2.5V
ANALOG_1.8V
ANALOG_3V
IC3005
TO CAM DSP
INV
INH
OUTV
OUTH
DCO3
DCO2
DCO1
DCO0
DYO3
DYO2
DYO1
DYO0
DCI3
DCI2
DCI1
DCI0
DYI3
DYI2
DYI1
DYI0
CLK27
TO TG/VDRV
TO AUDIO
AODAT
AIDAT
AIMCK
AIBCK
AILRCK
TO VTR CPU
ADDT15
ADDT14
ADDT13
ADDT12
ADDT11
ADDT10
ADDT09
ADDT08
ADDT07
ADDT06
ADDT05
ADDT04
ADDT03
ADDT02
ADDT01
ADDT00
DV_WAIT
DV_CS
DRWSEL
DRE
DWE
DALE
DV_RST
CLK27SEL
SRV_TRK
SRV_FRP
TSR
FRP
SPA
HID1
FFREW_H
XI164SEL
CN105
FS_PLL
MAIN_VCO
PB_CLK
JIG CONN.
J101
DV I/O
TO PRE/REC
AGC_OUT
VRB_AGC
VREF_1.1
REC_DATA
REC_CLK
REC_CTL
REF_CLK
ATFI
VRB_ATF
IC3004 SN74AHC1G04K
IC3003 TLC2940IPW
IC3002
IC3006
IC3007 SN74AHC2G53T
L3010 NQR0384-003X
L3011 NQR0384-003X
TO CAM DSP
FSPLLCTL
M_VCOCTL
※ NO WEAR
y10189001a_rev0
1
2
3
4
5
A
B
C
D
E
F
G
H

4.8 PRE/REC SCHEMATIC DIAGRAM

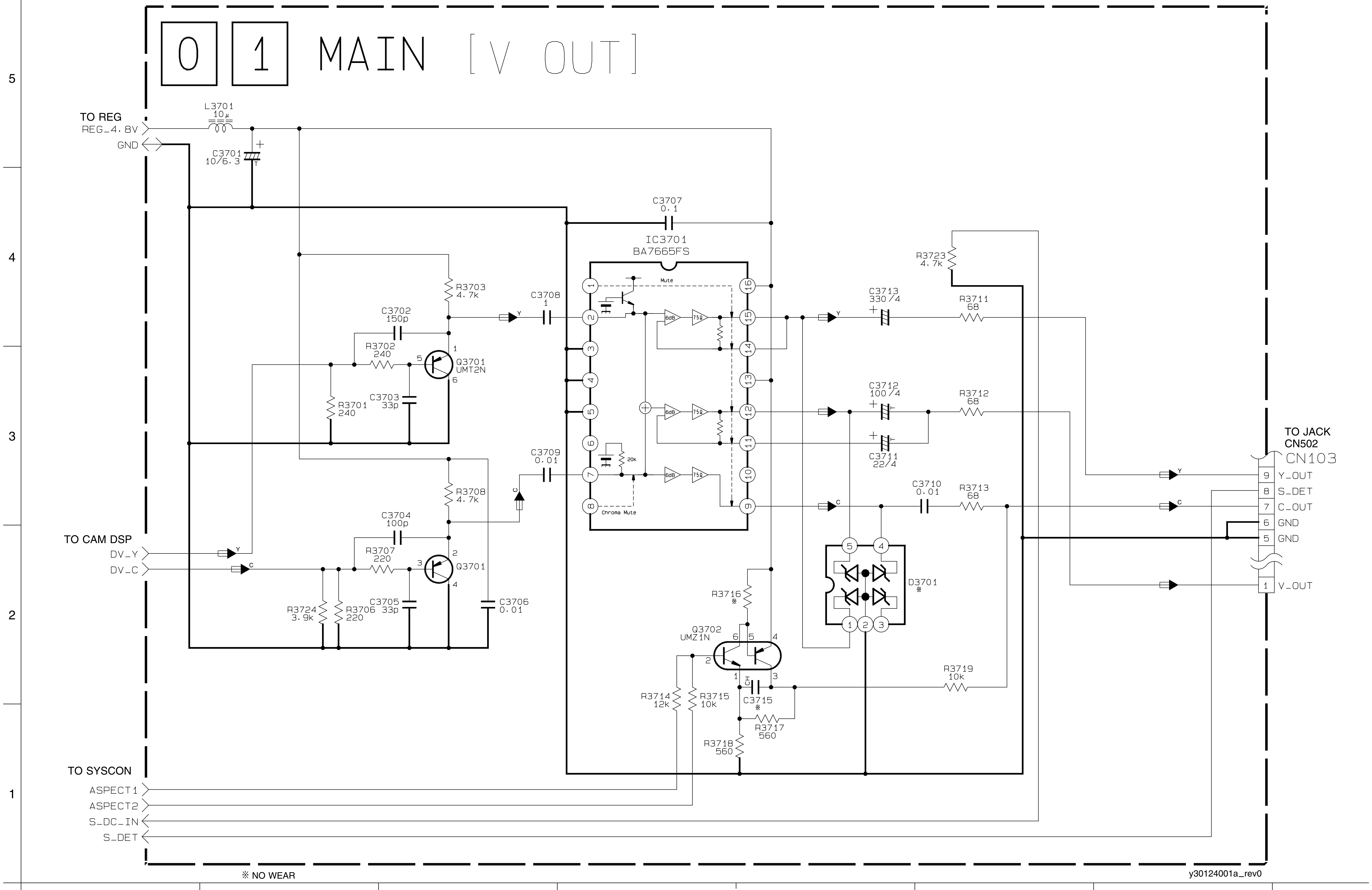
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



0 1 MAIN [PRE/REC]
TO VTR CPU
HID3
HID1
PBH
RECH
MONI_CHG
TL3501
JIG CONN.
CN105
ENV_OUT 15
ATFI 14
TO CAM DSP
DUMP_CTL
ATF_GAIN
AGC_GAIN
RECCADJ
TO DV MAIN
REC_CTL
VREF_1.1
AGC_OUT
VRB_AGC
VRB_ATF
ATFI
REF_CLK
REC_DATA
REC_CLK
TO REG
REG_4.8V
REG_3V
REG_2.5V
GND
L3501 NQR0129-002X
L3502 10μ
L3503 NQR0006-001X
L3504 NQR0006-001X
L3505 NQR0006-001X
C3501 10/6.3
C3502 10/6.3
C3503 10/6.3
R3509 ※
R3510 ※
C3527 220p
C3517 0.01
C3518 0.01
C3519 0.001
C3520 0.01
C3521 0.1
C3522 4.7
C3523 0.01
C3524 0.01
C3525 4.7
C3516 0.047
C3515 0.047
C3514 0.047
C3513 0.1
C3512 0.1
C3511 0.01
R3508 22k
IC3501
JCY0132
48 PB_MONI
47 DCS_C3
46 DCS_C2
45 DCS_C1
44 R_CTL
43 VCC5
42 REC_H
41 PB_H
40 HID1
39 HID2
38 HID3
37 VDD2.8
36 DUMP
35 PBIN_R
34 HEAD_GND
33 HEAD_GND
LOGIC
Dumping
6dB
DC Servo
49 PB_OUT
50 AGC_IN
51 AGC_CTL
52 AGC_DET
53 PB_GND
54 AGC_OUT
55 AGC_BUFF_IN
56 REG_1.1V
57 AGC_BUFF_OUT
58 VRB_AGC
59 MAIN_GND
60 ATF_GAIN
61 VCA_OUT
62 ATF_IN
63 VRB_ATF
64 ATF_OUT
Typ:-1.3dB
LPF
AGC
Typ:7.8dB
REG
BIAS
10.3dB
REG
10dB
VCA
Typ:24dB
BPF
BIAS
REG
12dB
F0 Auto
10dB
10dB
REC
REC_MONI
F.F.
30dB
30dB
30dB
32 HEAD_GND
31 DX3
30 X3
29 Y3
28 DY3
27 HEAD_GND
26 DX2
25 X2
24 Y2
23 DY2
22 HEAD_GND
21 DX1
20 X1
19 Y1
18 DY1
17 HEAD_GND
R3507 240
R3506 240
R3505 240
R3504 240
1 ATF_GND
2 F0_EVR
3 PB_GND
4 TC
5 ADREF
6 REF_CLK
7 REC_DATA
8 REC_GND
9 REC_CLK
10 REC_GAIN
11 VCC3
12 MONI_CHG
13 HEAD_VCC
14 REC_R
15 HEAD_GND
16 HEAD_GND
C3526 0.01
R3501 470
C3504 0.047
C3505 0.022
C3506 1
C3507 0.01
R3502 100k
C3508 0.01
C3509 0.01
C3510 0.1
R3503 1k
R3522 0Ω
R3521 0Ω
TO HEAD
CN110
8 GND[P/R_GND]
7 2S
6 2F
5 GND[P/R_GND]
4 GND[P/R_GND]
3 1S
2 1F
1 GND[P/R_GND]
※ NO WEAR
y20126001a_rev0
5
4
3
2
1
A
B
C
D
E
F
G
H

4.9 V OUT SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



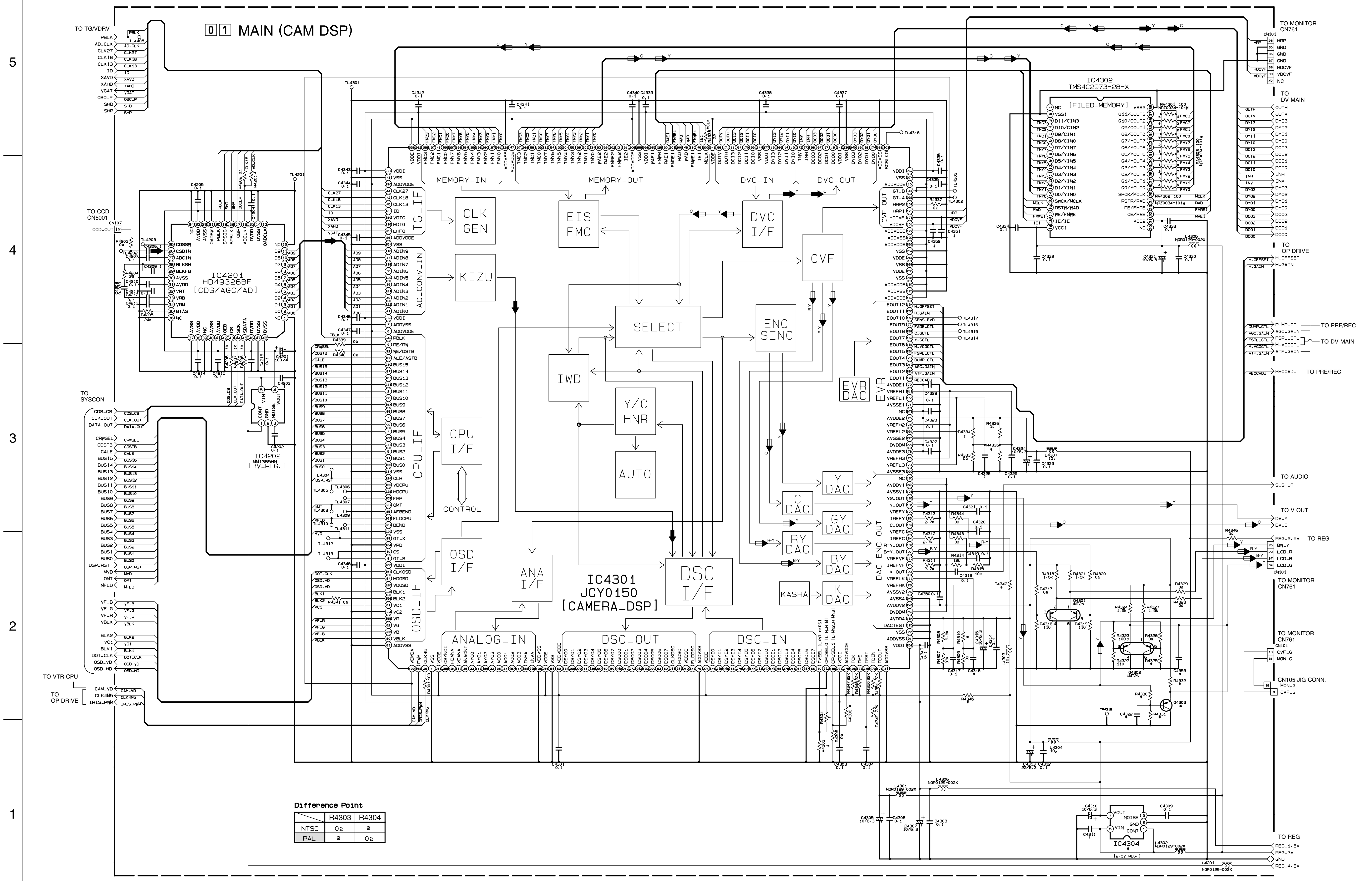
5
4
3
2
1
0 1 MAIN [V OUT]
TO REG
REG_4.8V
GND
L3701
10μ
C3701
10/6.3
C3707
0.1
IC3701
BA7665FS
Mute
6dB
75Ω
20k
Chroma Mute
R3703
4.7k
C3708
1
Y
C3702
150p
R3702
240
Q3701
UMT2N
C3703
33p
R3701
240
C3709
0.01
R3708
4.7k
C
C3704
100p
R3707
220
Q3701
C3705
33p
C3706
0.01
R3724
3.9k
R3706
220
TO CAM DSP
DV_Y
DV_C
R3723
4.7k
C3713
330/4
R3711
68
C3712
100/4
R3712
68
C3711
22/4
C3710
0.01
R3713
68
D3701
※
R3716
※
Q3702
UMZ1N
CH
C3715
※
R3717
560
R3718
560
R3714
12k
R3715
10k
R3719
10k
TO JACK
CN502
CN103
9 Y_OUT
8 S_DET
7 C_OUT
6 GND
5 GND
1 V_OUT
TO SYSCON
ASPECT1
ASPECT2
S_DC_IN
S_DET

※ NO WEAR

y30124001a_rev0

4.10 CAM DSP SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*


01 MAIN (CAM DSP)
TO TG/VDRV
TO CCD CN5001
TO SYSCON
TO VTR CPU
TO OP DRIVE
IC4201 HD49326BF [CDS/AGC/AD]
IC4202 MM1385HN [3V_REG.]
IC4301 JCY0150 [CAMERA_DSP]
IC4302 TMS4C2973-28-X [FILED_MEMORY]
IC4304 [2.5V_REG.]
CLK GEN
KIZU
EIS FMC
DVC I/F
CVF
SELECT
ENC SENC
IWD
Y/C HNR
AUTO
EVR DAC
CPU I/F
CONTROL
OSD I/F
ANA I/F
DSC I/F
Y DAC
C DAC
GY DAC
RY DAC
BY DAC
K DAC
KASHA
TG_IF
AD_CONV_IN
CPU_IF
OSD_IF
MEMORY_IN
MEMORY_OUT
DVC_IN
DVC_OUT
CVF_OUT
EVR
DAC_ENC_OUT
ANALOG_IN
DSC_OUT
DSC_IN
TO MONITOR CN761
TO DV MAIN
TO OP DRIVE
TO PRE/REC
TO DV MAIN
TO PRE/REC
TO AUDIO
TO V OUT
TO REG
TO MONITOR CN761
TO MONITOR CN761
CN105 JIG CONN.
TO REG
5
4
3
2
1
A
B
C
D
E
F
G
H

Difference Point

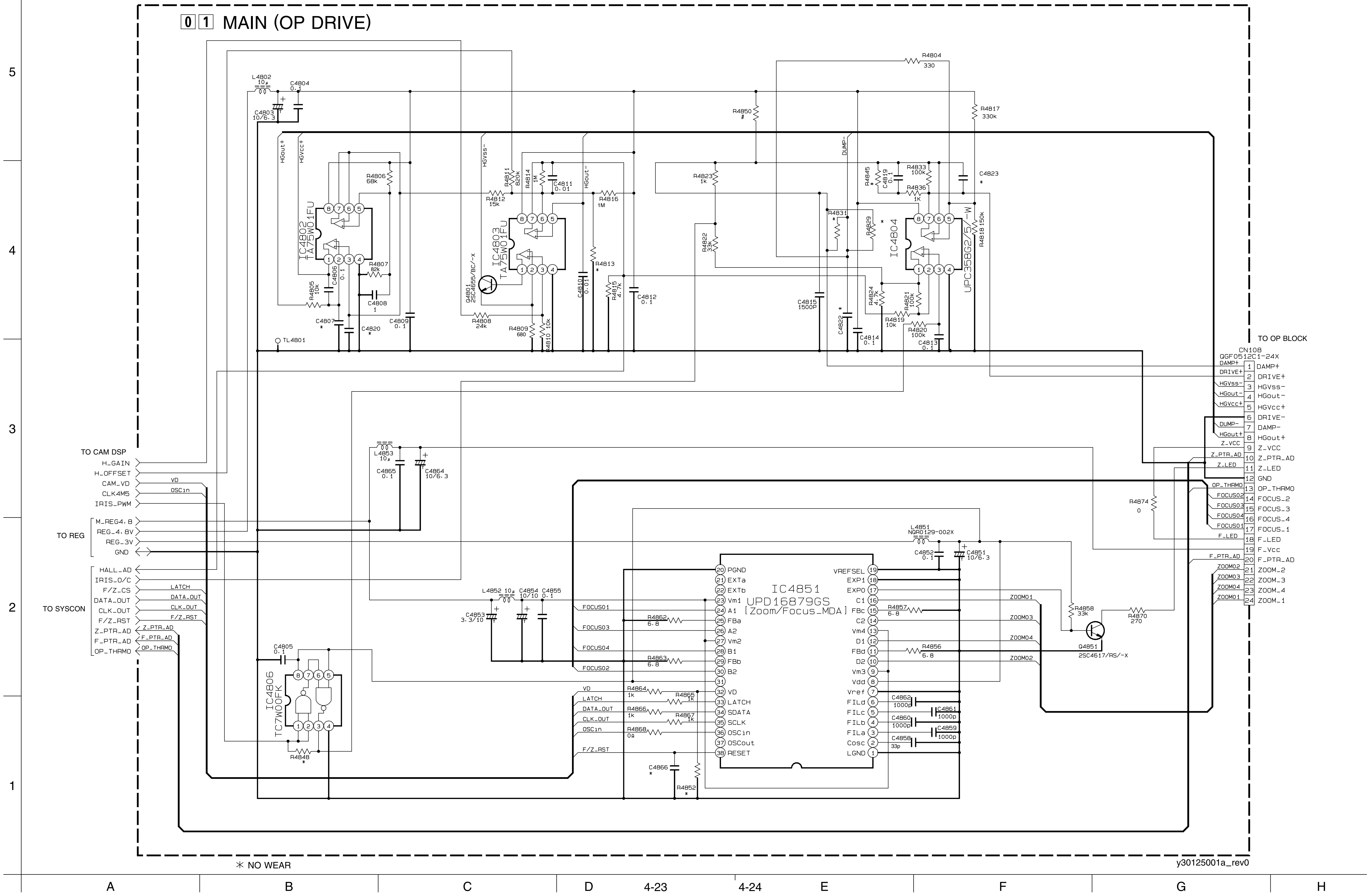
	R4303	R4304
NTSC	0Ω	※
PAL	※	0Ω

※ NO WEAR

y10191001a_rev0

4.11 OP DRIVE SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



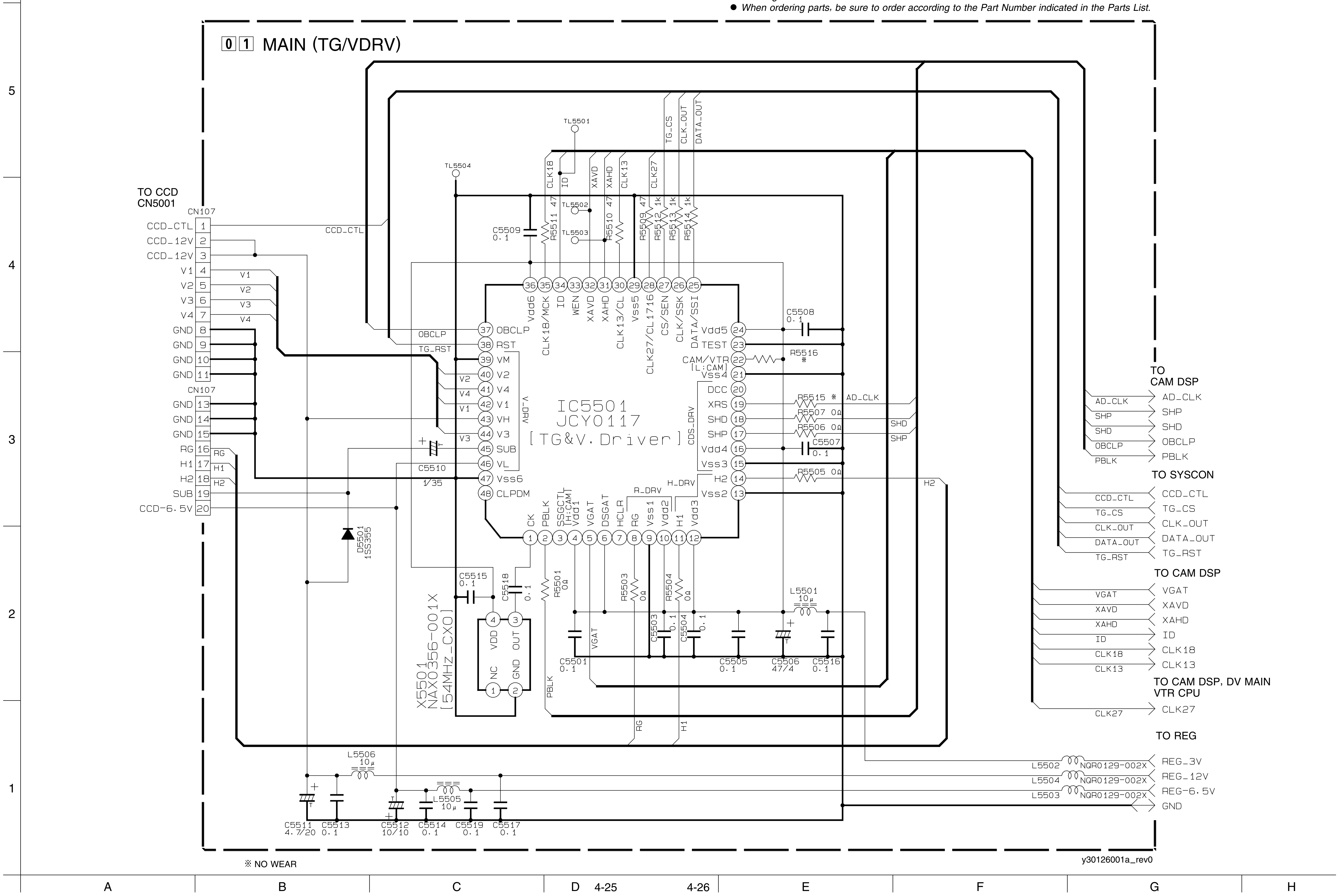
01 MAIN (OP DRIVE)
TO CAM DSP
H_GAIN
H_OFFSET
CAM_VD
CLK4M5
IRIS_PWM
TO REG
M_REG4.8
REG_4.8V
REG_3V
GND
TO SYSCON
HALL_AD
IRIS_O/C
F/Z_CS
DATA_OUT
CLK_OUT
F/Z_RST
Z_PTR_AD
F_PTR_AD
OP_THRMO
VD
OSCin
LATCH
DATA_OUT
CLK_OUT
F/Z_RST
Z_PTR_AD
F_PTR_AD
OP_THRMO
L4802 10µ
C4804 0.1
C4803 10/6.3
HGout+
HGVcc+
IC4802 TA75W01FU
R4806 68k
R4807 82k
C4808 1
R4805 10k
C4806 0.1
C4807 *
C4820 *
C4809 0.1
TL4801
HGVss-
R4811 820k
R4814 1M
C4811 0.01
HGout-
R4816 1M
R4812 15k
IC4803 TA75W01FU
Q4801 2SC4655/BC/-X
R4813 *
C4810 0.01
R4815 4.7k
C4812 0.1
R4808 24k
R4809 680
R4810 10k
R4804 330
R4850 #
R4817 330k
DUMP-
R4823 1k
R4822 33k
R4845 *
C4819 0.1
R4833 100k
R4836 1K
C4823 *
R4831 *
R4829 *
IC4804 UPC358G2/E/-W
R4818 150k
C4815 1500P
C4822 *
R4824 4.7k
C4814 0.1
R4821 100k
R4819 10k
R4820 100k
C4813 0.1
TO OP BLOCK
CN108 QGF0512C1-24X
1 DAMP+
2 DRIVE+
3 HGVss-
4 HGout-
5 HGVcc+
6 DRIVE-
7 DAMP-
8 HGout+
9 Z_VCC
10 Z_PTR_AD
11 Z_LED
12 GND
13 OP_THRMO
14 FOCUS_2
15 FOCUS_3
16 FOCUS_4
17 FOCUS_1
18 F_LED
19 F_Vcc
20 F_PTR_AD
21 ZOOM_2
22 ZOOM_3
23 ZOOM_4
24 ZOOM_1
DAMP+
DRIVE+
HGVss-
HGout-
HGVcc+
DUMP-
HGout+
Z_VCC
Z_PTR_AD
Z_LED
OP_THRMO
FOCUS02
FOCUS03
FOCUS04
FOCUS01
F_LED
F_PTR_AD
ZOOM02
ZOOM03
ZOOM04
ZOOM01
R4874 0
L4853 10µ
C4865 0.1
C4864 10/6.3
L4851 NQR0129-002X
C4852 0.1
C4851 10/6.3
L4852 10µ
C4854 10/10
C4855 0.1
C4853 3.3/10
FOCUS01
FOCUS03
FOCUS04
FOCUS02
R4862 6.8
R4863 6.8
IC4851 UPD16879GS [Zoom/Focus_MDA]
20 PGND
21 EXTa
22 EXTb
23 Vm1
24 A1
25 FBa
26 A2
27 Vm2
28 B1
29 FBb
30 B2
31
32 VD
33 LATCH
34 SDATA
35 SCLK
36 OSCin
37 OSCout
38 RESET
19 VREFSEL
18 EXP1
17 EXP0
16 C1
15 FBc
14 C2
13 Vm4
12 D1
11 FBd
10 D2
9 Vm3
8 Vdd
7 Vref
6 FILd
5 FILc
4 FILb
3 FILa
2 Cosc
1 LGND
R4857 6.8
R4856 6.8
C4862 1000p
C4861 1000p
C4860 1000p
C4859 1000p
C4858 33p
ZOOM01
ZOOM03
ZOOM04
ZOOM02
R4858 33k
R4870 270
Q4851 2SC4617/RS/-X
VD
LATCH
DATA_OUT
CLK_OUT
OSCin
F/Z_RST
R4864 1k
R4865 1k
R4866 1k
R4867 1k
R4868 0Ω
C4866 *
R4852 *
C4805 0.1
IC4806 TC7W00FK
R4848 *
1 2 3 4 5
A B C D E F G H

* NO WEAR

y30125001a_rev0

4.12 TG/VDRV SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



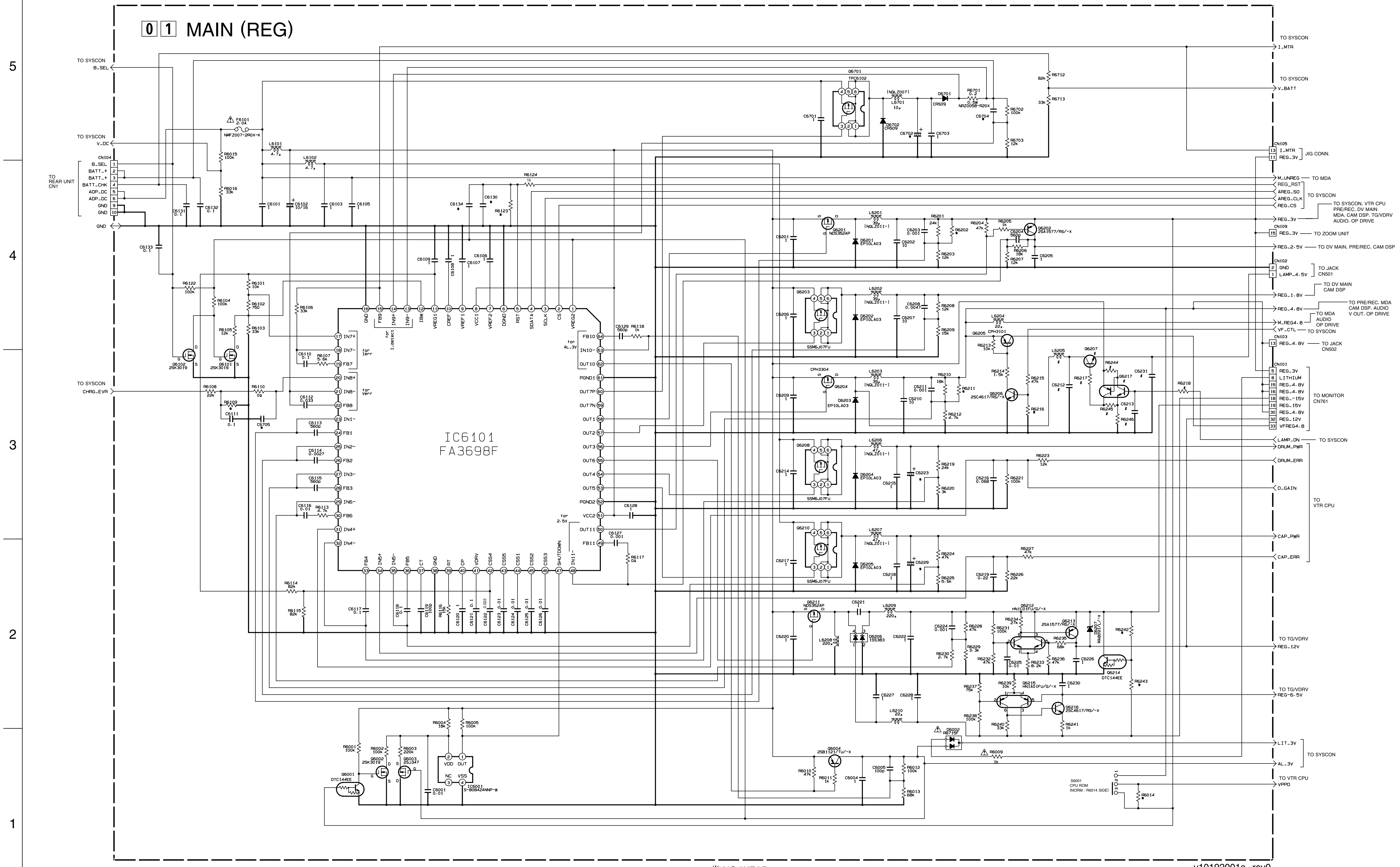
01 MAIN (TG/VDRV)
TO CCD CN5001
CN107
CCD_CTL 1
CCD_12V 2
CCD_12V 3
V1 4
V2 5
V3 6
V4 7
GND 8
GND 9
GND 10
GND 11
GND 13
GND 14
GND 15
RG 16
H1 17
H2 18
SUB 19
CCD-6.5V 20
IC5501
JCY0117
[TG&V.Driver]
Vdd6 36
CLK18/MCK 35
ID 34
WEN 33
XAVD 32
XAHD 31
CLK13/CL 30
Vss5 29
CLK27/CL1716 28
CS/SEN 27
CLK/SSK 26
DATA/SSI 25
37 OBCLP
38 RST
39 VM
40 V2
41 V4
42 V1
43 VH
44 V3
45 SUB
46 VL
47 Vss6
48 CLPDM
V_DRV
Vdd5 24
TEST 23
CAM/VTR [L:CAM] 22
Vss4 21
DCC 20
XRS 19
SHD 18
SHP 17
Vdd4 16
Vss3 15
H2 14
Vss2 13
CDS_DRV
1 CK
2 PBLK
3 SSGCTL [H:CAM]
4 Vdd1
5 VGAT
6 DSGAT
7 HCLR
8 RG
9 Vss1
10 Vdd2
11 H1
12 Vdd3
R_DRV
H_DRV
TL5501
TL5502
TL5503
TL5504
C5509 0.1
R5511 47
R5510 47
R5509 47
R5512 1k
R5513 1k
R5514 1k
C5508 0.1
R5516 ※
R5515 ※
R5507 0Ω
R5506 0Ω
C5507 0.1
R5505 0Ω
C5510 1/35
D5501 1SS355
C5515 0.1
C5518 0.1
X5501 NAX0356-001X [54MHz_CX0]
4 VDD
3 OUT
1 NC
2 GND
R5501 0Ω
R5503 0Ω
R5504 0Ω
C5503 0.1
C5504 0.1
C5501 0.1
C5505 0.1
C5506 47/4
C5516 0.1
L5501 10μ
L5506 10μ
L5505 10μ
C5511 4.7/20
C5513 0.1
C5512 10/10
C5514 0.1
C5519 0.1
C5517 0.1
TG_CS
CLK_OUT
DATA_OUT
CLK18
ID
XAVD
XAHD
CLK13
CLK27
CCD_CTL
OBCLP
TG_RST
AD_CLK
SHD
SHP
H2
VGAT
PBLK
RG
H1
TO CAM DSP
AD_CLK
SHP
SHD
OBCLP
PBLK
TO SYSCON
CCD_CTL
TG_CS
CLK_OUT
DATA_OUT
TG_RST
TO CAM DSP
VGAT
XAVD
XAHD
ID
CLK18
CLK13
TO CAM DSP, DV MAIN VTR CPU
CLK27
TO REG
L5502 NQR0129-002X REG_3V
L5504 NQR0129-002X REG_12V
L5503 NQR0129-002X REG-6.5V
GND
1
2
3
4
5
A
B
C
D
E
F
G
H

※ NO WEAR

y30126001a_rev0

4.13 REG SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



01 MAIN (REG)
IC6101
FA3698F
TO SYSCON
B_SEL
V_DC
CHRG_EVR
TO REAR UNIT CN1
CN104
B_SEL
BATT_+
BATT_+
BATT_CHK
ADP_DC
ADP_DC
GND
GND
GND
F6101
L6101
L6102
Q6101 2SK3019
Q6102 2SK3019
Q6701 TPC6102
L6701
D6701
D6702
R6701
R6712
R6713
Q6201 NDS352AP
Q6202 2SA1577/RS/-X
Q6203 SSM6J07FU
Q6204
Q6205 CPH3101
Q6206 2SC4617/RS/-X
Q6207
Q6208 SSM6J07FU
Q6210 SSM6J07FU
Q6211 NDS352AP
Q6212 HN1C01FU/G/-X
Q6213 2SA1577/RS/-X
Q6214 DTC144EE
Q6215 HN1A01FU/G/-X
Q6216 2SC4617/RS/-X
Q6217
L6201
L6202
L6203
L6204
L6205
L6206
L6207
L6208
L6209
L6210
D6201 EP10LA03
D6202 EP10LA03
D6203 EP10LA03
D6204 EP10LA03
D6205 EP10LA03
D6206 1SS383
D6207
Q6001 DTC144EE
Q6002 2SK3019
Q6003 2SJ347
IC6001 S-80842ANNP-W
Q6004 2SB1121/TU/-X
D6002
R6009
S6001 CPU ROM (NORM : R6014 SIDE)
TO SYSCON
I_MTR
V_BATT
CN105
I_MTR
REG_3V
JIG CONN.
M_UNREG
TO MDA
REG_RST
AREG_SO
AREG_CLK
REG_CS
TO SYSCON
REG_3V
TO SYSCON, VTR CPU PRE/REC, DV MAIN MDA, CAM DSP, TG/VDRV AUDIO, OP DRIVE
CN109
REG_3V
TO ZOOM UNIT
REG_2.5V
TO DV MAIN, PRE/REC, CAM DSP
CN102
GND
LAMP_4.5V
TO JACK CN501
REG_1.8V
TO DV MAIN CAM DSP
REG_4.8V
TO PRE/REC, MDA CAM DSP, AUDIO V OUT, OP DRIVE
M_REG4.8
TO MDA AUDIO OP DRIVE
VF_CTL
TO SYSCON
CN103
REG_4.8V
TO JACK CN502
CN101
REG_3V
LITHIUM
REG_4.8V
REG_4.8V
REG_-15V
REG_15V
REG_4.8V
REG_12V
VFREG4.8
TO MONITOR CN761
LAMP_ON
TO SYSCON
DRUM_PWR
DRUM_ERR
D_GAIN
TO VTR CPU
CAP_PWR
CAP_ERR
TO TG/VDRV
REG_12V
TO TG/VDRV
REG_6.5V
LIT_3V
AL_3V
TO SYSCON
TO VTR CPU
VPPD

#EXCHANGE PARTS LIST

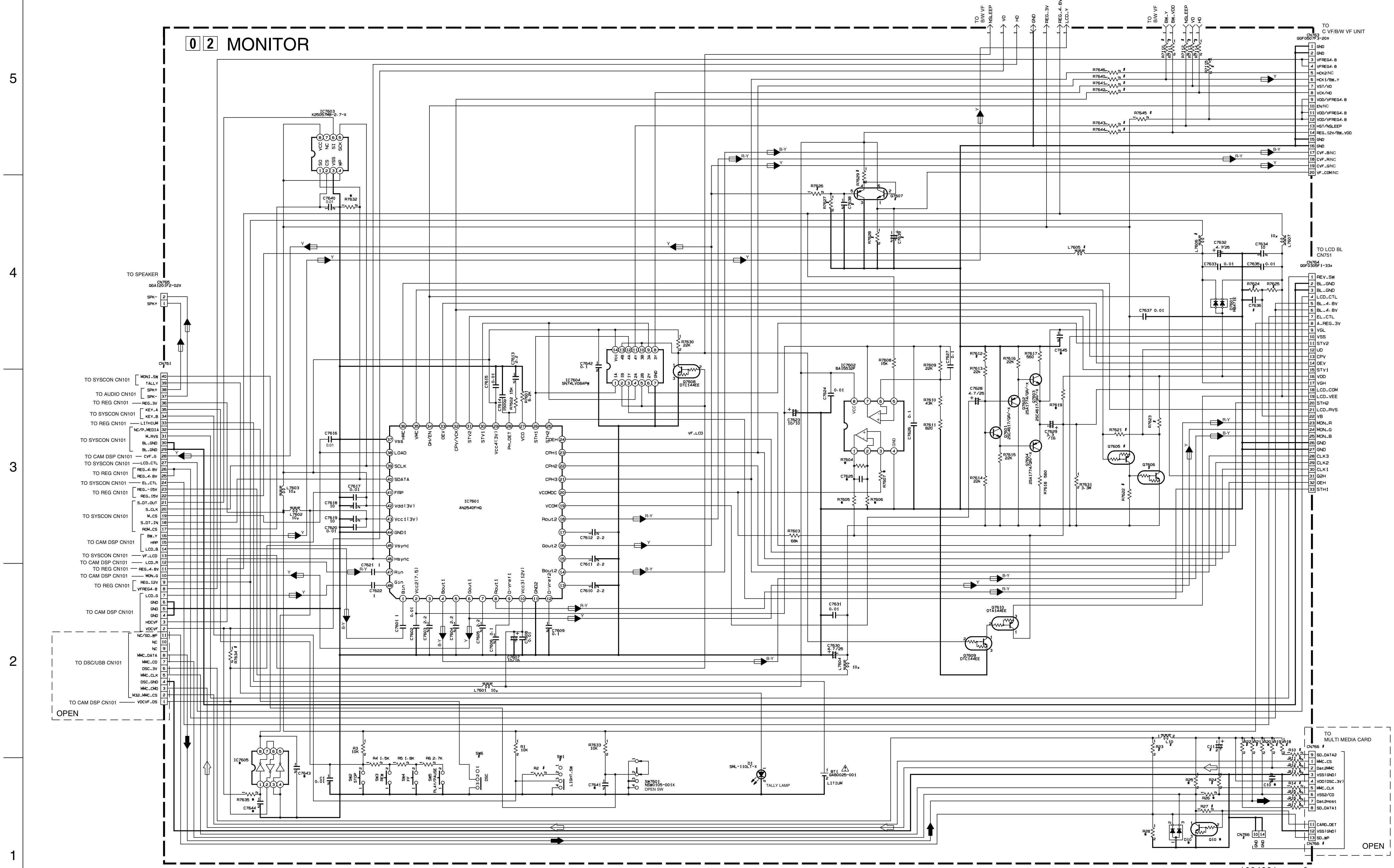
	L6205	Q6207	Q6217	R6217	R6218	R6244	R6245	R6246	C6212	C6213	C6231
with LIGHT	10μ	2SD1621/TU/-X	UMZ1N	150	100k	1.5k	5.6k	2.2k	1	1	0.01
without LIGHT	open	open	open	open	open	open	open	open	open	open	open

※ NO WEAR

y10192001a_rev0

4.14 MONITOR SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



5
4
3
2
1
02 MONITOR
TO B/W VF
NSLEEP
VD
HD
GND
REG.3V
REG.4.8V
LCD.Y
TO C VF/B/W VF UNIT
CN763 QGF0507F3-20X
IC7603 X25097MB-2.7-X
IC7601 AN2540FHQ
IC7604 SN74LV08APW
IC7602 BA10532F
IC7605
Q7607
Q7608 DTC144EE
Q7609 DTC144EE
Q7610 DTA144EE
Q7605
Q7606
TO SPEAKER
CN765 QGA1201F2-02X
CN761
TO SYSCON CN101
TO AUDIO CN101
TO REG CN101
TO CAM DSP CN101
TO DSC/USB CN101
OPEN
TO LCD BL CN751
CN764 QGF0305F1-33X
TO MULTI MEDIA CARD
CN766
SW7601 NSW0105-001X OPEN SW
D1 SML-110LT-X
TALLY LAMP
BT1 QAB0025-001 LITIUM
STOP
REW
FF
PLAY/PAUSE
DSC
LIGHT SW

y1094001a_rev0

※ NO WEAR

	R7110	R7111	R7112	R7113	R7114	R7115	Q7607	R7626	R7627	R7628	R7629	R7640	R7641	R7642	R7643	R7644	R7645	R7646	C7638	C7639
CVF MODEL	※	※	※	※	※	※	UMZ1N	18K	330K	220K	39K	0	0	0	0	0	0	0	2.2	10/10
B/W VF MODEL	0	0	0	0	0	0	※	※	※	※	※	※	※	※	※	※	※	※	※	※

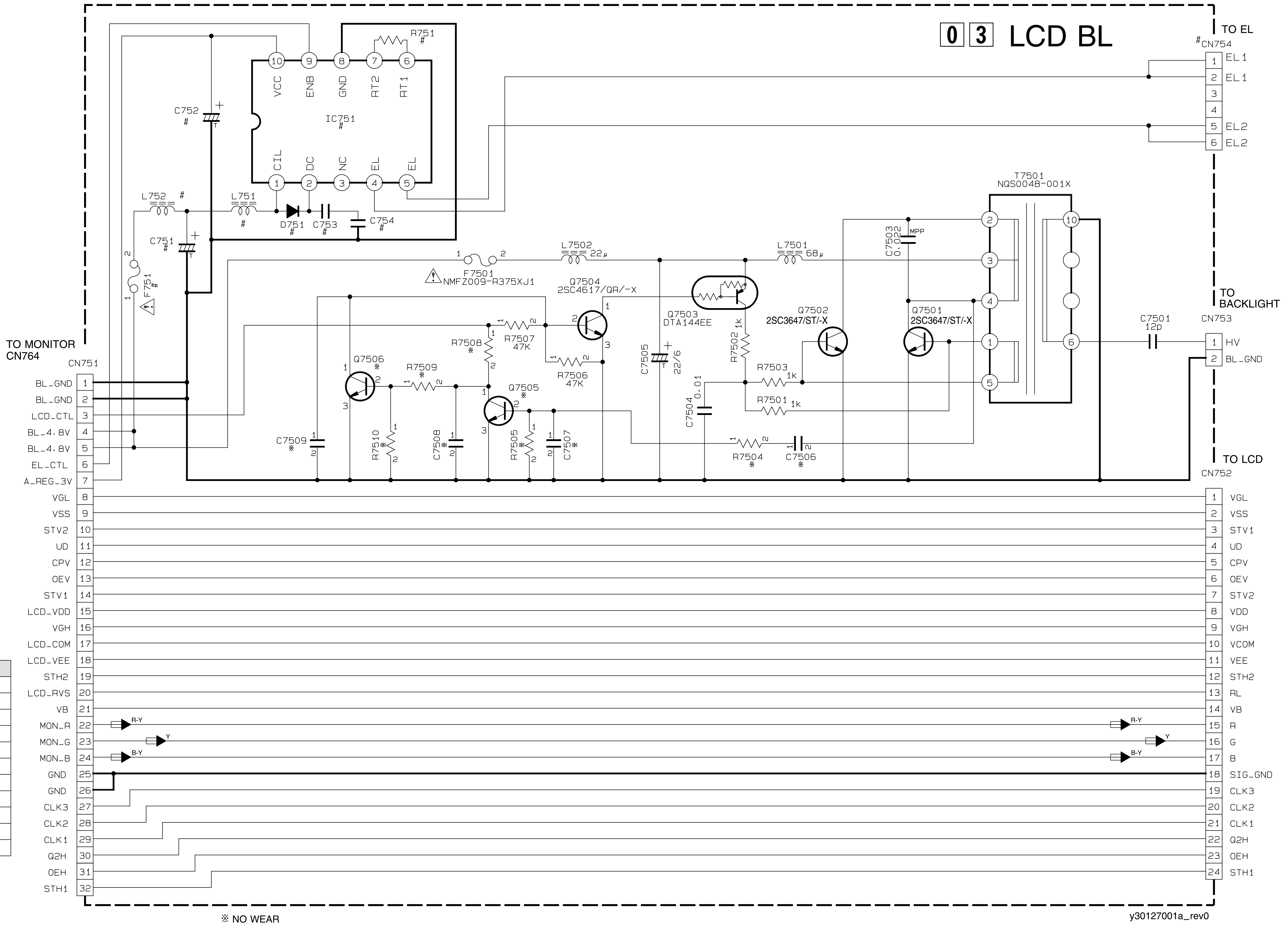
	Q7605	Q7606	L7605	L7606	R7612	R7621	R7622	R7623	R7624	R7625	C7636
2.5inch MODEL	※	※	10	※	22K	0	※	※	※	※	※
3/3.5inch MODEL	DTA144EE	DTC144EE	※	10	6.8K	※	22K	22K	22K	22K	0.1

	R7634	CN761	CN766	SW6	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R21	R22	R23	R24	R27	C11	L10
With DSC	※	QGF0508F1-50X	NNZ0052-001X	NSW0099-001X	0	0	0	0	0	0	0	0	47K	10K	10K	47K	100K	0	0	10/6.3	NQR0129-002X
Without DSC	0	QGF0508F1-40X	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※	※

	R1	R2	SW1
With LIGHT	10K	10K	NSW0092-001X
Without LIGHT	※	※	※

4.15 LCD BL SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*


03 LCD BL
TO MONITOR CN764
CN751
1 BL_GND
2 BL_GND
3 LCD_CTL
4 BL_4.8V
5 BL_4.8V
6 EL_CTL
7 A_REG_3V
8 VGL
9 VSS
10 STV2
11 UD
12 CPV
13 OEV
14 STV1
15 LCD_VDD
16 VGH
17 LCD_COM
18 LCD_VEE
19 STH2
20 LCD_RVS
21 VB
22 MON_R
23 MON_G
24 MON_B
25 GND
26 GND
27 CLK3
28 CLK2
29 CLK1
30 Q2H
31 OEH
32 STH1
R-Y
Y
B-Y
IC751 #
10 VCC
9 ENB
8 GND
7 RT2
6 RT1
1 CIL
2 DC
3 NC
4 EL
5 EL
R751 #
C752 #
C751 #
L752 #
L751 #
D751 #
C753 #
C754 #
F751 #
F7501
NMFZ009-R375XJ1
L7502 22μ
L7501 68μ
Q7504
2SC4617/QR/-X
Q7503
DTA144EE
Q7502
2SC3647/ST/-X
Q7501
2SC3647/ST/-X
Q7506 ※
Q7505 ※
R7508 ※
R7507 47K
R7506 47K
R7509 ※
R7510 ※
R7505 ※
R7502 1k
R7503 1k
R7501 1k
R7504 ※
C7509 ※
C7508 ※
C7507 ※
C7505 22/6
C7504 0.01
C7503 0.022 MPP
C7506 ※
C7501 12p
T7501
NQS0048-001X
TO EL
#CN754
1 EL1
2 EL1
3
4
5 EL2
6 EL2
TO BACKLIGHT
CN753
1 HV
2 BL_GND
TO LCD
CN752
1 VGL
2 VSS
3 STV1
4 UD
5 CPV
6 OEV
7 STV2
8 VDD
9 VGH
10 VCOM
11 VEE
12 STH2
13 RL
14 VB
15 R
16 G
17 B
18 SIG_GND
19 CLK3
20 CLK2
21 CLK1
22 Q2H
23 OEH
24 STH1
y30127001a_rev0

※ NO WEAR

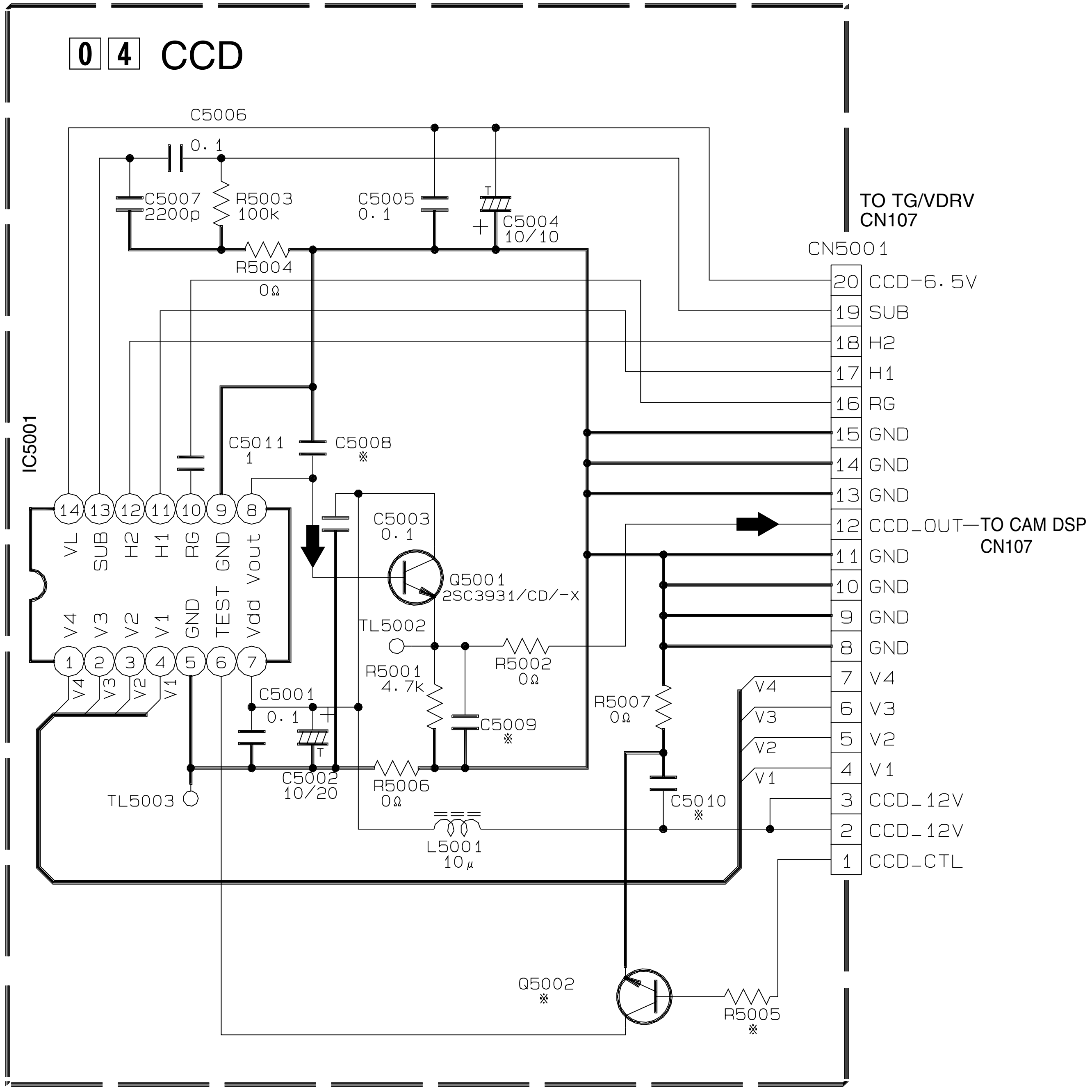
: EXCHANGE PARTS LIST

	With EL	Without EL
IC751	MIP805	※
F751	NMFZ007-R20X-K	※
D751	1SS376	※
L751	680	※
L752	10	※
R751	100K	※
C751	10/6.3	※
C752	10/6.3	※
C753	2200p	※
C754	2200p	※
CN754	QGF0505F2-06X	※

4.16 CCD SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

- *IC5001 is incorporated in the CCD base assembly. When IC5001 needs replacement, replace the CCD base assembly in whole because it cannot be replaced alone.*



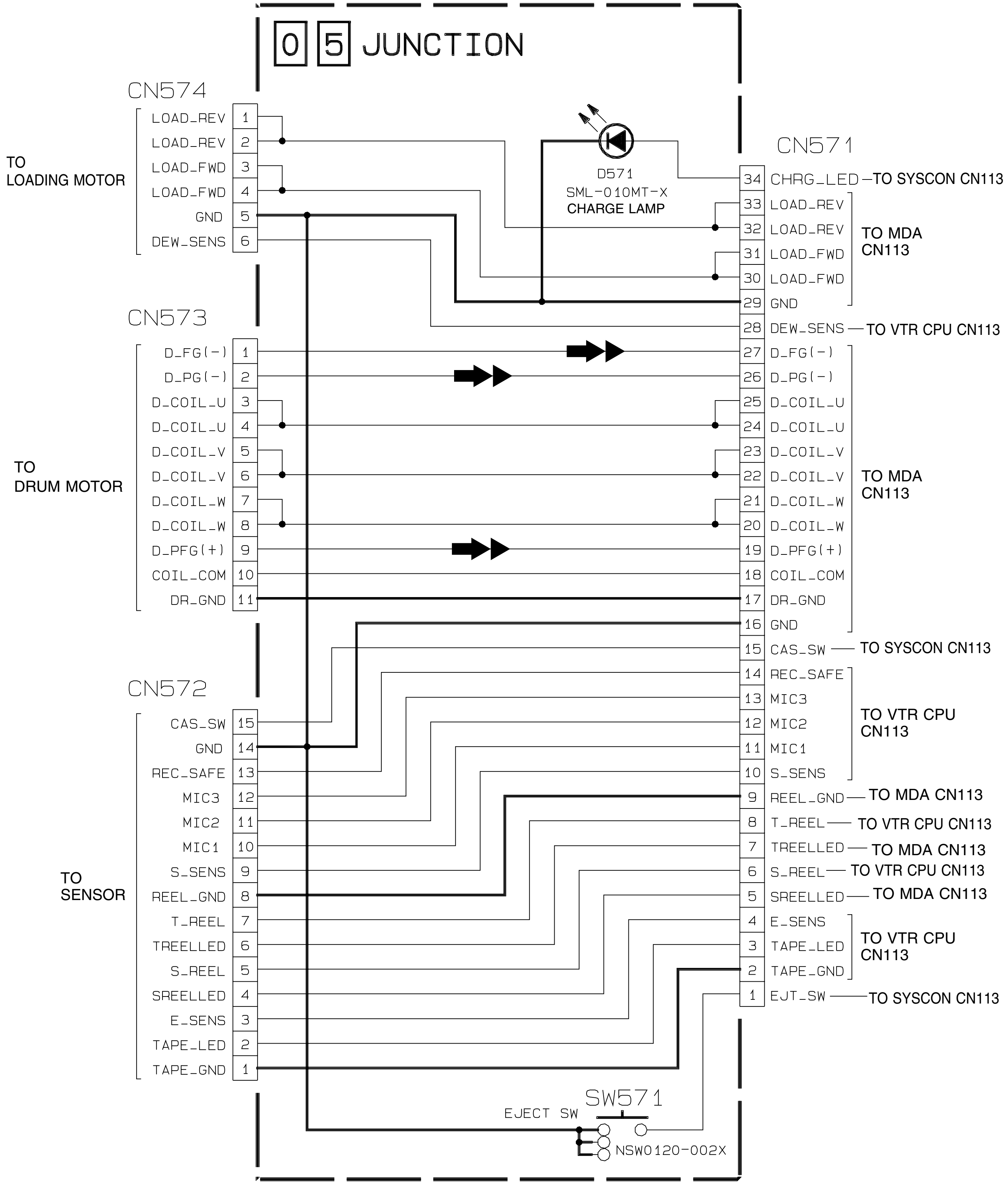
04 CCD
C5006
0.1
C5007
2200p
R5003
100k
R5004
0Ω
C5005
0.1
C5004
10/10
TO TG/VDRV
CN107
CN5001
20 CCD-6.5V
19 SUB
18 H2
17 H1
16 RG
15 GND
14 GND
13 GND
12 CCD_OUT
TO CAM DSP
CN107
11 GND
10 GND
9 GND
8 GND
7 V4
6 V3
5 V2
4 V1
3 CCD_12V
2 CCD_12V
1 CCD_CTL
IC5001
14 VL
13 SUB
12 H2
11 H1
10 RG
9 GND
8 Vout
1 V4
2 V3
3 V2
4 V1
5 GND
6 TEST
7 Vdd
C5011
1
C5008
※
C5003
0.1
Q5001
2SC3931/CD/-X
TL5002
R5001
4.7k
R5002
0Ω
C5009
※
R5007
0Ω
C5001
0.1
C5002
10/20
R5006
0Ω
TL5003
L5001
10μ
C5010
※
Q5002
※
R5005
※

※ NO WEAR

y40071001a_rev0

4.17 JUNCTION SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



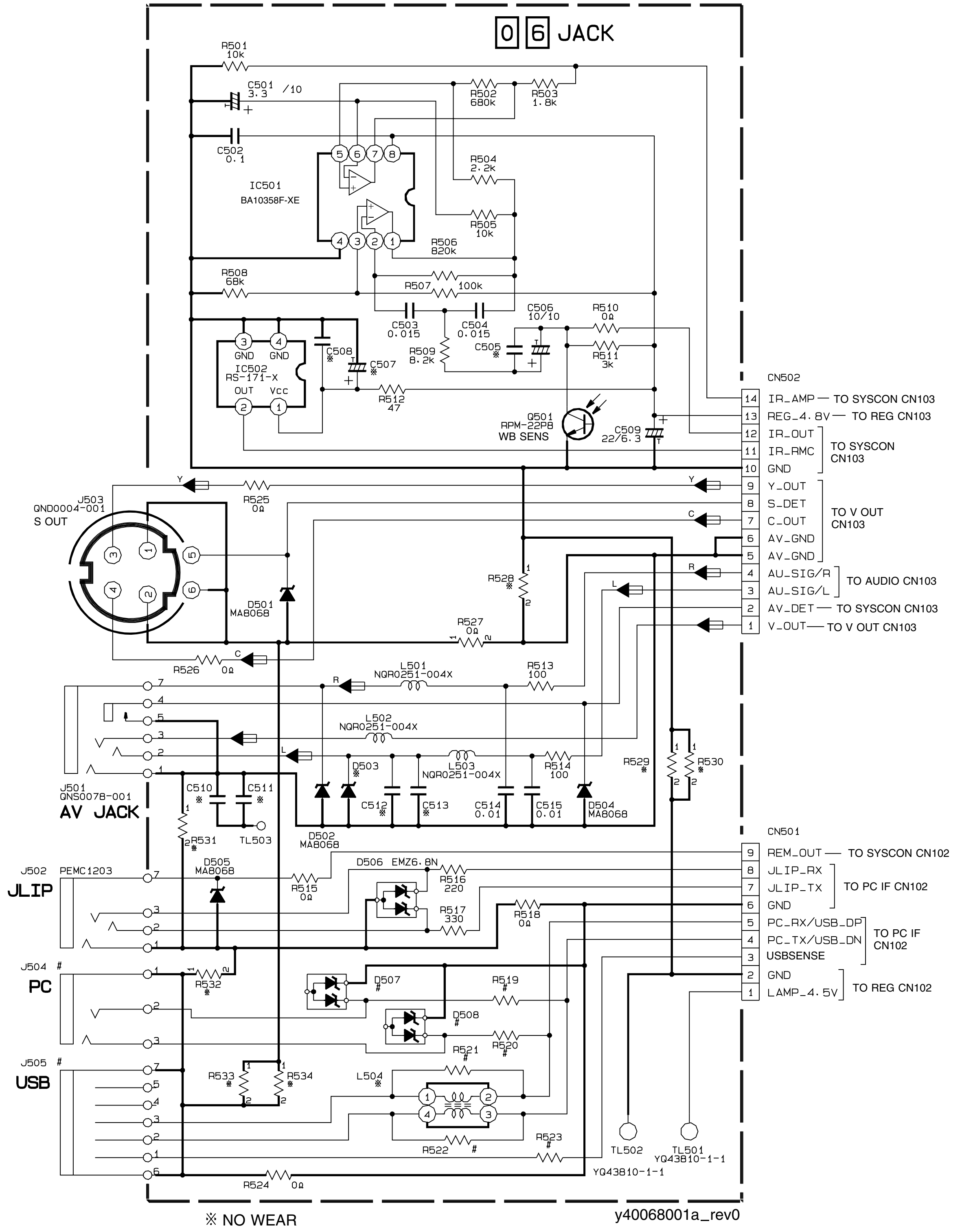
05 JUNCTION
CN574
TO LOADING MOTOR
1 LOAD_REV
2 LOAD_REV
3 LOAD_FWD
4 LOAD_FWD
5 GND
6 DEW_SENS
D571
SML-010MT-X
CHARGE LAMP
CN571
34 CHRG_LED
TO SYSCON CN113
33 LOAD_REV
32 LOAD_REV
31 LOAD_FWD
30 LOAD_FWD
29 GND
TO MDA CN113
28 DEW_SENS
TO VTR CPU CN113
CN573
TO DRUM MOTOR
1 D_FG(-)
2 D_PG(-)
3 D_COIL_U
4 D_COIL_U
5 D_COIL_V
6 D_COIL_V
7 D_COIL_W
8 D_COIL_W
9 D_PFG(+)
10 COIL_COM
11 DR_GND
27 D_FG(-)
26 D_PG(-)
25 D_COIL_U
24 D_COIL_U
23 D_COIL_V
22 D_COIL_V
21 D_COIL_W
20 D_COIL_W
19 D_PFG(+)
18 COIL_COM
17 DR_GND
16 GND
TO MDA CN113
15 CAS_SW
TO SYSCON CN113
14 REC_SAFE
13 MIC3
12 MIC2
11 MIC1
10 S_SENS
TO VTR CPU CN113
9 REEL_GND
TO MDA CN113
8 T_REEL
TO VTR CPU CN113
7 TREELLED
TO MDA CN113
6 S_REEL
TO VTR CPU CN113
5 SREELLED
TO MDA CN113
4 E_SENS
3 TAPE_LED
2 TAPE_GND
TO VTR CPU CN113
1 EJT_SW
TO SYSCON CN113
CN572
TO SENSOR
15 CAS_SW
14 GND
13 REC_SAFE
12 MIC3
11 MIC2
10 MIC1
9 S_SENS
8 REEL_GND
7 T_REEL
6 TREELLED
5 S_REEL
4 SREELLED
3 E_SENS
2 TAPE_LED
1 TAPE_GND
SW571
EJECT SW
NSW0120-002X

y40069001a_rev0

4.18 JACK SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*

● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



06 JACK
R501 10k
C501 3.3 /10
C502 0.1
R502 680k
R503 1.8k
R504 2.2k
R505 10k
R506 820k
R507 100k
R508 68k
IC501 BA10358F-XE
C503 0.015
C504 0.015
C505 ※
C506 10/10
R509 8.2k
R510 0Ω
R511 3k
R512 47
IC502 RS-171-X
GND GND OUT Vcc
C508 ※
C507 ※
Q501 RPM-22P8 WB SENS
C509 22/6.3
CN502
14 IR_AMP — TO SYSCON CN103
13 REG_4.8V — TO REG CN103
12 IR_OUT
11 IR_RMC
10 GND
TO SYSCON CN103
9 Y_OUT
8 S_DET
7 C_OUT
6 AV_GND
5 AV_GND
TO V OUT CN103
4 AU_SIG/R
3 AU_SIG/L
TO AUDIO CN103
2 AV_DET — TO SYSCON CN103
1 V_OUT — TO V OUT CN103
J503 QND0004-001 S OUT
R525 0Ω
R526 0Ω
D501 MA8068
R527 0Ω
R528 ※
L501 NQR0251-004X
R513 100
L502 NQR0251-004X
L503 NQR0251-004X
R514 100
D503 ※
R529 ※
R530
J501 QNS0078-001 AV JACK
C510 ※
C511 ※
C512 ※
C513 ※
C514 0.01
C515 0.01
D504 MA8068
R531 ※
TL503
D502 MA8068
CN501
9 REM_OUT — TO SYSCON CN102
8 JLIP_RX
7 JLIP_TX
6 GND
TO PC IF CN102
5 PC_RX/USB_DP
4 PC_TX/USB_DN
3 USBSENSE
TO PC IF CN102
2 GND
1 LAMP_4.5V
TO REG CN102
J502 PEMC1203 JLIP
D505 MA8068
D506 EMZ6.8N
R515 0Ω
R516 220
R517 330
R518 0Ω
J504 # PC
R532 ※
D507 #
R519 #
D508 #
R520 #
R521 #
J505 # USB
R533 ※
R534 ※
L504 ※
R522 #
R523 #
R524 0Ω
TL502 YQ43810-1-1
TL501 YQ43810-1-1

※ NO WEAR

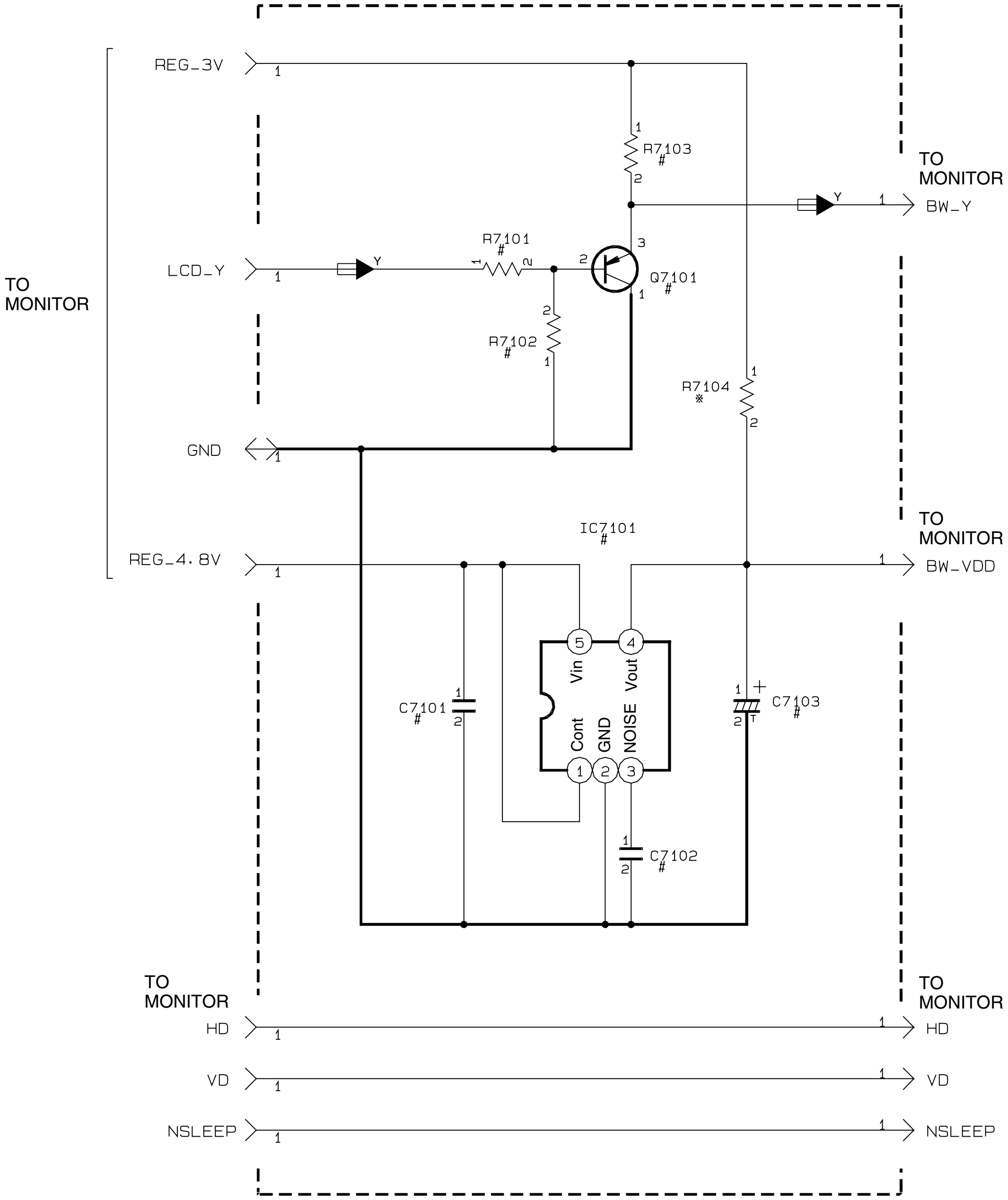
y40068001a_rev0

EXCHANGE PARTS LIST

	J504	J505	R519, R520	R521~R523	D507, D508
Without DSC	QNS0152-001	※	330	※	EMZ6.8N-X
With DSC	※	QNZ0497-001	※	0Ω	※

4.19 B/W VF SCHEMATIC DIAGRAM

NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



REG_3V
LCD_Y
GND
REG_4.8V
TO MONITOR
TO MONITOR
BW_Y
TO MONITOR
BW_VDD
TO MONITOR
HD
VD
NSLEEP
TO MONITOR
HD
VD
NSLEEP
R7103 #
R7101 #
Q7101 #
R7102 #
R7104 ※
IC7101 #
Vin
Vout
Cont
GND
NOISE
C7101 #
C7102 #
C7103 #
Y
Y

y40070001a_rev0

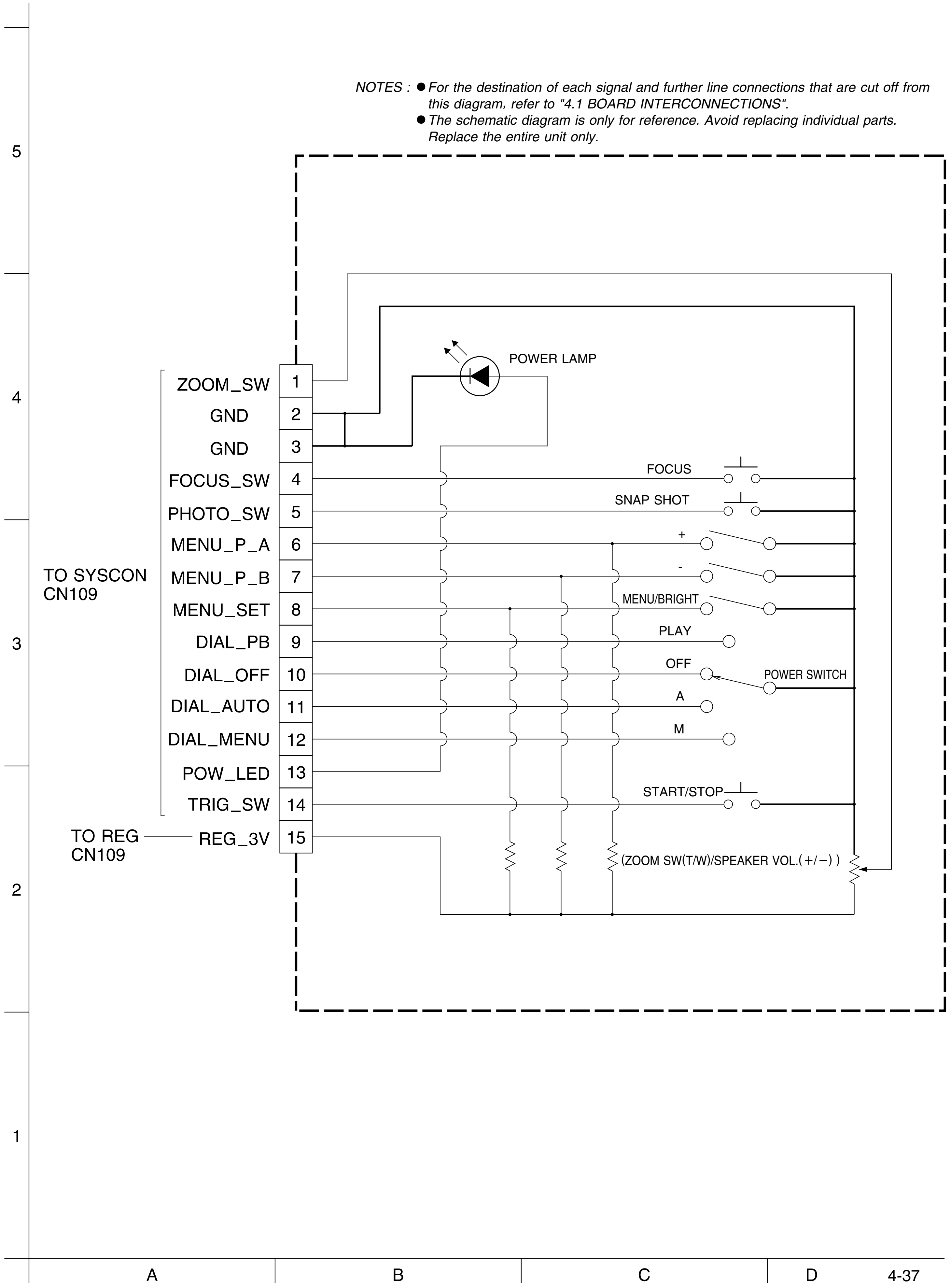
※ NO WEAR

#: EXCHANGE PARTS LIST

	CVF MODEL	B/W VF MODEL
IC7101	※	MM1385EN
Q7101	※	2SA1774/QR/-X
R7101	※	5.6K
R7102	※	5.6K
R7103	※	10K
C7101	※	0.1
C7102	※	0.01
C7103	※	4.7/6.3

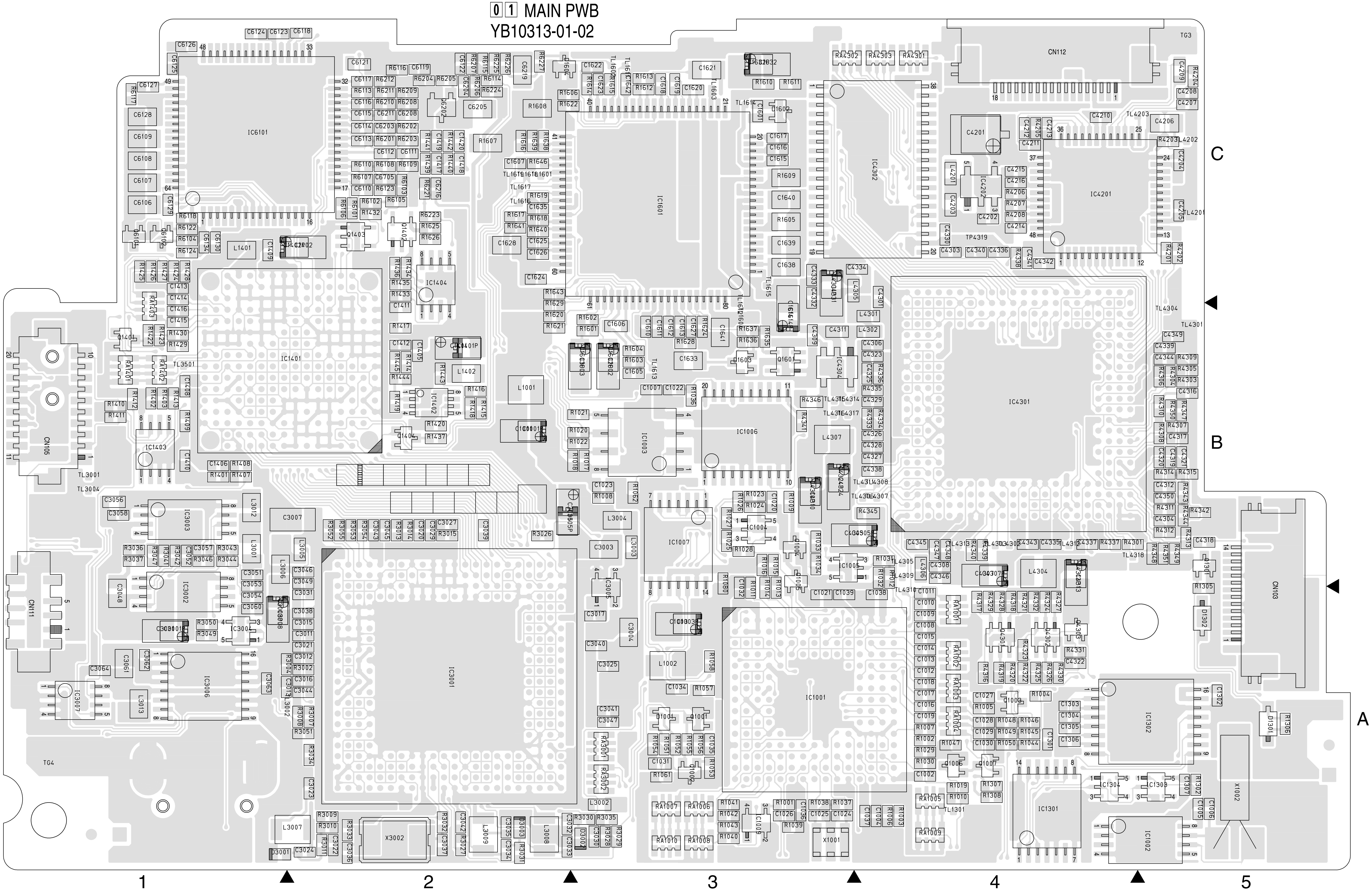
4.20 ZOOM UNIT SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *The schematic diagram is only for reference. Avoid replacing individual parts. Replace the entire unit only.*


5
4
3
2
1
TO SYSCON
CN109
TO REG
CN109
ZOOM_SW 1
GND 2
GND 3
FOCUS_SW 4
PHOTO_SW 5
MENU_P_A 6
MENU_P_B 7
MENU_SET 8
DIAL_PB 9
DIAL_OFF 10
DIAL_AUTO 11
DIAL_MENU 12
POW_LED 13
TRIG_SW 14
REG_3V 15
POWER LAMP
FOCUS
SNAP SHOT
+
-
MENU/BRIGHT
PLAY
OFF
POWER SWITCH
A
M
START/STOP
(ZOOM SW(T/W)/SPEAKER VOL.(+/−))
A
B
C
D

4.21 MAIN CIRCUIT BOARD

FOIL SIDE(B)


01 MAIN PWB
YB10313-01-02
IC6101
IC1401
IC1601
IC4302
IC4201
IC4301
IC1003
IC1006
IC1007
IC1001
IC3001
IC3003
IC3002
IC3006
IC3007
IC1403
IC1404
IC1402
IC1302
IC1301
IC1002
IC4202
IC4304
IC1004
IC1005
IC1303
IC1304
IC3005
IC3004
CN112
CN105
CN111
CN103
X1001
X1002
X3002
L1001
L1002
L1401
L1402
L3001
L3004
L3007
L3008
L3009
L3012
L3013
L4304
L4307
TG3
TG4
TL3001
TL3004
TL3501
TL4304
TL4301
TL4318
TL1301
1
2
3
4
5
A
B
C

COMPONENT PARTS LOCATION GUIDE ＜MAIN＞

CAPACITOR

REF.NO.	LOCATION		
C1001	B	C	2B
C1002	B	C	4A
C1003	B	C	3A
C1004	B	C	4A
C1005	B	C	5A
C1006	B	C	5A
C1007	B	C	3B
C1008	B	C	4A
C1009	B	C	4A
C1010	B	C	4A
C1011	B	C	4A
C1012	B	C	4A
C1013	B	C	4A
C1014	B	C	4A
C1015	B	C	4A
C1016	B	C	4A
C1017	B	C	4A
C1018	B	C	4A
C1019	B	C	4A
C1020	B	C	3B
C1021	B	C	3A
C1022	B	C	3B
C1023	B	C	3B
C1024	B	C	3A
C1025	B	C	3A
C1026	B	C	3A
C1027	B	C	4A
C1028	B	C	4A
C1029	B	C	4A
C1030	B	C	4A
C1031	B	C	3A
C1032	B	C	3A
C1034	B	C	3A
C1035	B	C	3A
C1036	B	C	3A
C1037	B	C	4A
C1038	B	C	4A
C1039	B	C	3A
C1040	A	C	1A
C1041	A	C	1B
C1301	B	C	4A
C1302	B	C	5A
C1303	B	C	4A
C1304	B	C	4A
C1305	B	C	4A
C1306	B	C	4A
C1307	B	C	5A
C1401	B	C	2B
C1402	B	C	2C
C1405	B	C	2B
C1406	B	C	1B
C1408	B	C	1B
C1409	B	C	1C
C1410	B	C	1B
C1411	B	C	2B
C1412	B	C	2B
C1413	B	C	1C
C1414	B	C	1C
C1415	B	C	1B
C1416	B	C	1B
C1417	B	C	2C
C1418	B	C	2C
C1419	B	C	2C
C1420	B	C	2C
C1601	B	C	3C
C1602	B	C	3B
C1603	B	C	3B
C1605	B	C	3B
C1606	B	C	3B
C1607	B	C	2C
C1610	B	C	3B
C1611	B	C	3B
C1612	B	C	3B
C1613	B	C	3B
C1614	B	C	3B
C1615	B	C	3C
C1616	B	C	3C
C1617	B	C	3C
C1618	B	C	3C
C1619	B	C	3C
C1620	B	C	3C
C1621	B	C	3C
C1622	B	C	3C
C1623	B	C	3C
C1624	B	C	2C
C1625	B	C	2C
C1626	B	C	2C
C1627	B	C	3B
C1628	B	C	2C
C1632	B	C	3C
C1633	B	C	3B
C1635	B	C	2C
C1638	B	C	3C
C1639	B	C	3C
C1640	B	C	3C
C1641	B	C	3B
C1642	B	C	3C
C2001	A	C	4A
C2002	A	C	5A
C2003	A	C	4A
C2004	A	C	4A
C2005	A	C	4A
C2006	A	C	4A
C2007	A	C	4A
C2008	A	C	3A
C2009	A	C	3A
C2010	A	C	4A
C2011	A	C	4A
C2012	A	C	3A
C2013	A	C	4A
C2014	A	C	4A
C2015	A	C	4A
C2016	A	C	4A
C2017	A	C	4A
C2018	A	C	4A
C2019	A	C	4A
C2020	A	C	4A
C2021	A	C	4A
C2101	A	C	5A
C2102	A	C	5A
C2103	A	C	5A
C2104	A	C	5A
C2105	A	C	5A
C2106	A	C	4A
C2107	A	C	4A
C2108	A	C	5A
C2109	A	C	5A
C2110	A	C	5A
C2111	A	C	4A
C2112	A	C	4A
C2113	A	C	4A
C2114	A	C	4A
C2115	A	C	4A
C2116	A	C	4A
C2121	A	C	4B
C2122	A	C	5A
C2123	A	C	5A
C2124	A	C	4A
C2125	A	C	5A
C2126	A	C	4A
C2129	A	C	5A
C2130	A	C	4A
C2131	A	C	4A
C2132	A	C	4A
C2133	A	C	4A
C2134	A	C	4A
C2201	A	C	5A
C2202	A	C	5A
C3001	B	C	1A
C3003	B	C	3B
C3004	B	C	3A
C3005	B	C	3B
C3007	B	C	2B
C3008	B	C	1A
C3011	B	C	2A
C3012	B	C	2A
C3013	B	C	2A
C3015	B	C	2A
C3016	B	C	2A
C3017	B	C	3A
C3020	B	C	2B
C3021	B	C	2A
C3022	B	C	2A
C3023	B	C	2A
C3024	B	C	2A
C3025	B	C	3A
C3026	A	C	1A
C3027	B	C	2B
C3028	A	C	1A
C3029	B	C	2B
C3030	B	C	3A
C3031	B	C	2A
C3032	B	C	3A
C3033	B	C	3A
C3034	B	C	2A
C3035	B	C	2A
C3036	B	C	2A
C3037	B	C	2A
C3038	B	C	2A
C3039	B	C	2B
C3040	B	C	3A
C3041	B	C	3A
C3042	B	C	2A
C3043	B	C	2B
C3044	B	C	2A
C3045	B	C	2B
C3046	B	C	2B
C3047	B	C	3A
C3048	B	C	1A
C3049	B	C	2B
C3051	B	C	1B
C3052	B	C	1B
C3053	B	C	1B
C3054	B	C	1A
C3056	B	C	1B
C3057	B	C	1B
C3058	B	C	1B
C3060	B	C	1A
C3061	B	C	1A
C3062	B	C	1A
C3063	B	C	1A
C3064	B	C	1A
C3501	A	C	3B
C3502	A	C	3C
C3503	A	C	2C
C3504	A	C	2B
C3505	A	C	2B
C3506	A	C	2B
C3507	A	C	2C
C3508	A	C	2C
C3509	A	C	2C
C3510	A	C	2C
C3511	A	C	3C
C3512	A	C	3C
C3513	A	C	3C
C3514	A	C	3B
C3515	A	C	3B
C3516	A	C	3B
C3517	A	C	3B
C3518	A	C	3B
C3519	A	C	3B
C3520	A	C	3B
C3521	A	C	3B
C3522	A	C	2B
C3523	A	C	2B
C3524	A	C	2B
C3525	A	C	2B
C3526	A	C	2B
C3527	A	C	3B
C3701	A	C	3B
C3702	A	C	3B
C3703	A	C	4A
C3704	A	C	3A
C3705	A	C	4A
C3706	A	C	3B
C3707	A	C	3B
C3708	A	C	3B
C3709	A	C	3A
C3710	A	C	3A
C3711	A	C	3B
C3712	A	C	3B
C3713	A	C	3B
C3715	A	C	3A
C4201	B	C	4C
C4202	B	C	4C
C4203	B	C	4C
C4204	B	C	5C
C4205	B	C	5C
C4206	B	C	5C
C4207	B	C	5C
C4208	B	C	5C
C4209	B	C	5C
C4210	B	C	4C
C4211	B	C	4C
C4212	B	C	4C
C4213	B	C	4C
C4214	B	C	4C
C4215	B	C	4C
C4216	B	C	4C
C4301	B	C	4C
C4303	B	C	4C
C4304	B	C	5B
C4305	B	C	4B
C4306	B	C	4B
C4307	B	C	4B
C4308	B	C	4B
C4309	B	C	3B
C4310	B	C	3B
C4311	B	C	3B
C4312	B	C	5B
C4313	B	C	4B
C4314	A	C	5B
C4315	A	C	5A
C4316	B	C	5B
C4317	B	C	5B
C4318	B	C	5B
C4319	B	C	5B
C4320	B	C	5B
C4321	B	C	5B
C4322	B	C	4A
C4323	B	C	4B
C4324	B	C	3B
C4325	B	C	4B
C4326	B	C	4B
C4327	B	C	4B
C4328	B	C	4B
C4329	B	C	4B
C4330	B	C	4C
C4331	B	C	3C
C4332	B	C	3C
C4333	B	C	3C
C4334	B	C	4C
C4335	B	C	4B
C4336	B	C	4C
C4337	B	C	4B
C4338	B	C	4B
C4339	B	C	5B
C4340	B	C	4C
C4341	B	C	4C
C4342	B	C	4C
C4343	B	C	4B
C4344	B	C	5B
C4345	B	C	4B
C4346	B	C	4B
C4347	B	C	4B
C4348	B	C	4B
C4349	B	C	5B
C4350	B	C	5B
C4351	A	C	2A
C4352	A	C	2A
C4353	A	C	2A
C4803	A	C	4B
C4804	A	C	4C
C4805	A	C	4B
C4806	A	C	3B
C4807	A	C	3B
C4808	A	C	4B
C4809	A	C	4B
C4810	A	C	4C
C4811	A	C	4C
C4812	A	C	4B
C4813	A	C	3B
C4814	A	C	4B
C4815	A	C	3C
C4819	A	C	3B
C4820	A	C	4B
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C4823	A	C	4B
C4851	A	C	4B
C4852	A	C	4B
C4853	A	C	4B
C4854	A	C	4B
C4855	A	C	4B
C4858	A	C	4B
C4859	A	C	4B
C4860	A	C	4B
C4861	A	C	4B
C4862	A	C	4B
C4864	A	C	4B
C4865	A	C	4B
C4866	A	C	4B
C5501	A	C	4C
C5503	A	C	4C
C5504	A	C	4C
C5505	A	C	4C
C5506	A	C	3C
C5507	A	C	4C
C5508	A	C	4C
C5509	A	C	4B
C5510	A	C	3C
C5511	A	C	4C
C5512	A	C	3C
C5513	A	C	3C
C5514	A	C	3C
C5515	A	C	4C
C5516	A	C	3C
C5517	A	C	3C
C5518	A	C	4C
C5519	A	C	3C
C6001	A	C	1A
C6004	A	C	1B
C6005	A	C	1B
C6101	A	C	1C
C6102	A	C	1B
C6103	A	C	2C
C6105	A	C	2C
C6106	B	C	1C
C6107	B	C	1C
C6108	B	C	1C
C6109	B	C	1C
C6110	B	C	2C
C6111	B	C	2C
C6112	B	C	2C
C6113	B	C	2C
C6114	B	C	2C
C6115	B	C	2C
C6116	B	C	2C
C6117	B	C	2C
C6118	B	C	2C
C6119	B	C	2C
C6120	A	C	2C
C6121	B	C	2C
C6122	B	C	2C
C6123	B	C	1C
C6124	B	C	1C
C6125	B	C	1C
C6126	B	C	1C
C6127	B	C	1C
C6128	B	C	1C
C6129	B	C	1C
C6130	B	C	1C
C6131	A	C	1A
C6132	A	C	1A
C6133	A	C	1A
C6134	B	C	1C
C6201	A	C	2A
C6202	A	C	2A
C6203	B	C	2C
C6204	B	C	2C
C6205	B	C	2C
C6206	A	C	2B
C6207	A	C	2A
C6208	B	C	2C
C6209	A	C	2A
C6210	A	C	2A
C6211	B	C	2C
C6212	A	C	1A
C6213	A	C	1A
C6214	A	C	2B
C6215	A	C	2B
C6216	B	C	2C
C6217	A	C	2B
C6218	A	C	2B
C6219	B	C	2C
C6220	A	C	2B
C6221	A	C	3B
C6222	A	C	3A
C6223	A	C	2B
C6224	A	C	2A
C6225	A	C	2A
C6226	A	C	2A
C6227	A	C	3A
C6228	A	C	3A
C6229	A	C	2B
C6230	A	C	3A
C6231	A	C	5B
C6701	A	C	2C
C6702	A	C	2C
C6703	A	C	1C
C6704	A	C	1B
C6705	B	C	2C

CONNECTOR

REF.NO.	LOCATION		
CN101	A	C	3A
CN102	A	C	5B
CN103	B	C	5A
CN104	A	C	1A
CN105	B	C	1B
CN106	A	C	5A
CN107	A	C	4C
CN108	A	C	4B
CN109	A	C	1C
CN110	A	C	2C
CN111	B	C	1A
CN112	B	C	4C
CN113	A	C	3C

DIODE

REF.NO.	LOCATION		
D1001	B	C	3A
D1002	A	C	1B
D1301	B	C	5A
D1302	B	C	5A
D1602	B	C	3C
D1603	B	C	3B
D1604	B	C	2C
D2001	A	C	3A
D2002	A	C	3A
D3001	B	C	1A
D3002	B	C	3A
D3003	B	C	2A
D3701	A	C	3B
D5501	A	C	3C
D6002	A	C	1A
D6201	A	C	2A
D6202	A	C	2A
D6203	A	C	2A
D6204	A	C	2B
D6205	A	C	2B
D6206	A	C	3A
D6207	A	C	3A
D6701	A	C	1C
D6702	A	C	2C

IC

REF.NO.	LOCATION		
IC1001	B	C	3A
IC1002	B	C	5A
IC1003	B	C	3B
IC1004	B	C	3B
IC1005	B	C	4B
IC1006	B	C	3B
IC1007	B	C	3B
IC1009	B	C	3A
IC1301	B	C	4A
IC1302	B	C	5A
IC1303	B	C	5A
IC1304	B	C	4A
IC1401	B	C	2B
IC1402	B	C	2B
IC1403	B	C	1B
IC1404	B	C	2C
IC1601	B	C	3C
IC2001	A	C	4A
IC3001	B	C	2A
IC3002	B	C	1A
IC3003	B	C	1B
IC3004	B	C	1A
IC3005	B	C	3A
IC3006	B	C	1A
IC3007	B	C	1A
IC3501	A	C	2C
IC3701	A	C	3B
IC4201	B	C	4C
IC4202	B	C	4C
IC4301	B	C	4B
IC4302	B	C	4C
IC4304	B	C	3B
IC4802	A	C	3B
IC4803	A	C	4B
IC4804	A	C	3B
IC4806	A	C	4B
IC4851	A	C	4B
IC5501	A	C	4C
IC6001	A	C	1A
IC6101	B	C	1C

COIL

REF.NO.	LOCATION		
L1001	B	C	2B
L1002	B	C	3A
L1401	B	C	1C
L1402	B	C	2B
L2001	A	C	4A
L2002	A	C	4B
L3001	B	C	1B
L3002	B	C	3A
L3003	B	C	3B
L3004	B	C	3B
L3005	B	C	2B
L3006	B	C	1B
L3007	B	C	2A
L3008	B	C	2A
L3009	B	C	2A
L3010	A	C	1A
L3011	A	C	1A
L3012	B	C	1B
L3013	B	C	1A
L3501	A	C	3C
L3502	A	C	3B
L3503	A	C	2B
L3504	A	C	2C
L3505	A	C	2C
L3701	A	C	3B
L4201	B	C	4C
L4301	B	C	4B
L4302	B	C	4B
L4303	A	C	5B
L4304	B	C	4B
L4305	B	C	4C
L4306	B	C	4B
L4307	B	C	3B
L4802	A	C	4C
L4851	A	C	4B
L4852	A	C	4B
L4853	A	C	4B
L5501	A	C	3C
L5502	A	C	3C
L5503	A	C	3C
L5504	A	C	3C
L5505	A	C	3C
L5506	A	C	3C
L6101	A	C	1B
L6102	A	C	2C
L6201	A	C	2A
L6202	A	C	2A
L6203	A	C	2A
L6204	A	C	2A
L6205	A	C	1A
L6206	A	C	2B
L6207	A	C	2B
L6208	A	C	2B
L6209	A	C	3A
L6210	A	C	3A
L6701	A	C	1C

TRANSISTOR

REF.NO.	LOCATION		
Q1001	B	C	3A
Q1002	B	C	3A
Q1003	B	C	4A
Q1004	B	C	3B
Q1005	B	C	3B
Q1006	B	C	4A
Q1007	B	C	4A
Q1301	B	C	5B
Q1401	B	C	1B
Q1402	B	C	2C
Q1403	B	C	2C
Q1404	B	C	2B
Q1601	B	C	3B
Q2001	A	C	4A
Q2002	A	C	3A
Q2004	A	C	4A
Q3701	A	C	3A
Q3702	A	C	3A
Q4301	B	C	4A
Q4302	B	C	4A
Q4303	B	C	4A
Q4801	A	C	3B
Q4851	A	C	4B
Q6001	A	C	1A
Q6002	A	C	1A
Q6003	A	C	1A
Q6004	A	C	1B
Q6101	B	C	1C
Q6102	B	C	1C
Q6201	A	C	2A
Q6202	B	C	2C
Q6203	A	C	2A
Q6204	A	C	2A
Q6205	A	C	2A
Q6206	A	C	2A
Q6207	A	C	1B
Q6208	A	C	2B
Q6210	A	C	2B
Q6211	A	C	2B
Q6212	A	C	2A
Q6213	A	C	3A
Q6214	A	C	3A
Q6215	A	C	3A
Q6216	A	C	3A
Q6217	A	C	1B
Q6701	A	C	2C

RESISTOR

REF.NO.	LOCATION		
R1001	B	C	3A
R1002	B	C	4A
R1003	B	C	4A
R1004	B	C	4A
R1005	B	C	4A
R1006	B	C	4A
R1007	B	C	4A
R1008	B	C	3B
R1009	B	C	3B
R1010	B	C	4A
R1011	B	C	3A
R1012	B	C	4B
R1013	B	C	3A
R1014	B	C	3A
R1015	B	C	3B
R1016	B	C	3B
R1017	B	C	3B
R1018	B	C	3B
R1019	B	C	4A
R1020	B	C	3B
R1021	B	C	3B
R1022	B	C	3B
R1023	B	C	3B
R1024	B	C	3B
R1025	B	C	3B
R1026	B	C	3B
R1027	B	C	3B
R1028	B	C	3B
R1029	B	C	4A
R1030	B	C	4A
R1031	B	C	4B
R1032	B	C	4B
R1033	B	C	3B
R1034	B	C	3B
R1036	B	C	3B
R1037	B	C	3A
R1038	B	C	3A

REF.NO.	LOCATION		
R1039	B	C	3A
R1040	B	C	3A
R1041	B	C	3A
R1042	B	C	3A
R1043	B	C	3A
R1044	B	C	4A
R1045	B	C	4A
R1046	B	C	4A
R1047	B	C	4A
R1048	B	C	4A
R1049	B	C	4A
R1050	B	C	4A
R1051	B	C	3A
R1052	B	C	3A
R1053	B	C	3A
R1054	B	C	3A
R1055	B	C	3A
R1056	B	C	3A
R1057	B	C	3A
R1058	B	C	3A
R1061	B	C	3A
R1062	B	C	3B
R1080	B	C	3B
R1302	B	C	5A
R1305	B	C	5A
R1306	B	C	5A
R1307	B	C	4A
R1308	B	C	4A
R1401	B	C	1B
R1402	B	C	1B
R1403	B	C	1B
R1407	B	C	1B
R1408	B	C	1B
R1409	B	C	1B
R1410	B	C	1B
R1411	B	C	1B
R1412	B	C	1B
R1413	B	C	1B
R1414	B	C	2B
R1415	B	C	2B
R1416	B	C	2B
R1417	B	C	2B
R1418	B	C	2B
R1419	B	C	2B
R1420	B	C	2B
R1422	B	C	1B
R1423	B	C	1B
R1424	B	C	1C
R1425	B	C	1C
R1426	B	C	1C
R1427	B	C	1C
R1428	B	C	1C
R1429	B	C	1B
R1430	B	C	1B
R1432	B	C	2C
R1433	B	C	2C
R1434	B	C	2C
R1435	B	C	2C
R1436	B	C	2C
R1437	B	C	2B
R1439	B	C	2C
R1440	B	C	2C
R1441	B	C	2C
R1442	B	C	2C
R1443	B	C	2B
R1444	B	C	2B
R1445	B	C	2B
R1601	B	C	3B
R1602	B	C	3B
R1603	B	C	3B
R1604	B	C	3B
R1605	B	C	3C
R1606	B	C	3C
R1607	B	C	2C
R1608	B	C	2C
R1609	B	C	3C
R1610	B	C	3C
R1611	B	C	3C
R1612	B	C	3C
R1613	B	C	3C
R1614	B	C	3C
R1615	B	C	3C
R1616	B	C	2C
R1617	B	C	2C
R1618	B	C	2C
R1619	B	C	2C
R1620	B	C	2B
R1621	B	C	2B
R1622	B	C	3C
R1624	B	C	3B
R1625	B	C	2C
R1626	B	C	2C
R1628	B	C	3B
R1629	B	C	2B

REF.NO.	LOCATION		
R1630	A	C	2C
R1631	A	C	2C
R1635	B	C	3B
R1636	B	C	3B
R1637	B	C	3B
R1638	B	C	2C
R1639	B	C	2C
R1640	B	C	2C
R1641	B	C	2C
R1643	B	C	2C
R1646	B	C	2C
R2006	A	C	4A
R2007	A	C	3A
R2008	A	C	4A
R2009	A	C	3A
R2014	A	C	3A
R2015	A	C	3A
R2016	A	C	3A
R2017	A	C	3A
R2018	A	C	4A
R2019	A	C	4A
R2020	A	C	4A
R2023	A	C	4A
R2024	A	C	4A
R2025	A	C	4A
R2026	A	C	4A
R2027	A	C	4A
R2028	A	C	4A
R2029	A	C	4B
R2101	A	C	5A
R2102	A	C	5A
R2103	A	C	4A
R2104	A	C	4A
R2105	A	C	4A
R2106	A	C	4A
R2107	A	C	4A
R2108	A	C	4A
R2109	A	C	4A
R2110	A	C	5A
R2111	A	C	4A
R2112	A	C	5A
R2113	A	C	4A
R2114	A	C	5A
R2117	A	C	5A
R2118	A	C	4A
R2119	A	C	5A
R2120	A	C	4A
R2127	A	C	5A
R2128	A	C	4A
R2129	A	C	4A
R2130	A	C	4A
R2201	A	C	5A
R2202	A	C	5A
R3002	B	C	2A
R3004	B	C	2A
R3007	B	C	2A
R3008	B	C	2A
R3009	B	C	2A
R3010	B	C	2A
R3011	B	C	2A
R3013	B	C	2B
R3014	B	C	2B
R3015	B	C	2B
R3016	A	C	1A
R3017	A	C	1A
R3018	A	C	1A
R3019	A	C	1A
R3020	A	C	1A
R3021	A	C	1A
R3022	A	C	1A
R3023	A	C	1A
R3024	A	C	1A
R3026	B	C	2B
R3027	B	C	2A
R3028	B	C	3A
R3029	B	C	3A
R3030	B	C	3A
R3031	B	C	2A
R3032	B	C	2A
R3033	B	C	2A
R3034	B	C	2A
R3035	B	C	3A
R3036	B	C	1B
R3037	B	C	1B
R3041	B	C	1B
R3042	B	C	1B
R3043	B	C	1B
R3044	B	C	1B
R3046	B	C	1B
R3047	B	C	1B
R3049	B	C	1A
R3050	B	C	1A
R3051	B	C	2A
R3052	B	C	2B

REF.NO.	LOCATION		
R3053	B	C	2B
R3054	B	C	2B
R3055	B	C	2B
R3501	A	C	2B
R3502	A	C	2B
R3503	A	C	2C
R3504	A	C	2C
R3505	A	C	2C
R3506	A	C	2C
R3507	A	C	3C
R3508	A	C	3C
R3509	A	C	2B
R3510	A	C	3B
R3521	A	C	3B
R3522	A	C	2C
R3701	A	C	4B
R3702	A	C	3B
R3703	A	C	3B
R3706	A	C	4A
R3707	A	C	3A
R3708	A	C	3A
R3711	A	C	3B
R3712	A	C	3B
R3713	A	C	3A
R3714	A	C	3A
R3715	A	C	3A
R3716	A	C	3A
R3717	A	C	3A
R3718	A	C	3A
R3719	A	C	3A
R3723	A	C	4A
R3724	A	C	4A
R4201	B	C	5C
R4202	B	C	5C
R4203	B	C	5C
R4204	B	C	5C
R4205	B	C	4C
R4206	B	C	4C
R4207	B	C	4C
R4208	B	C	4C
R4301	B	C	5B
R4303	B	C	5B
R4304	B	C	5B
R4305	B	C	5B
R4306	B	C	5B
R4307	B	C	5B
R4308	B	C	5B
R4309	B	C	5B
R4310	B	C	5B
R4311	B	C	5B
R4312	B	C	5B
R4313	B	C	5B
R4314	B	C	5B
R4315	B	C	5B
R4316	B	C	4A
R4317	B	C	4A
R4318	B	C	4A
R4319	B	C	4A
R4320	B	C	4A
R4321	B	C	4A
R4322	B	C	4A
R4323	B	C	4A
R4324	B	C	4A
R4325	B	C	4A
R4326	B	C	4A
R4327	B	C	4A
R4328	B	C	4A
R4329	B	C	4A
R4330	B	C	4A
R4331	B	C	4A
R4332	B	C	4A
R4333	B	C	4B
R4334	B	C	4B
R4335	B	C	4B
R4336	B	C	4B
R4337	B	C	4B
R4338	B	C	4C
R4339	B	C	4B
R4340	B	C	4B
R4341	B	C	3B
R4342	B	C	5B
R4343	B	C	5B
R4344	B	C	5B
R4345	B	C	4B
R4346	B	C	3B
R4347	B	C	5B
R4348	B	C	5B
R4349	B	C	5B
R4350	B	C	5B
R4351	B	C	5B
R4804	A	C	3C
R4805	A	C	3B
R4806	A	C	4B
R4807	A	C	4B

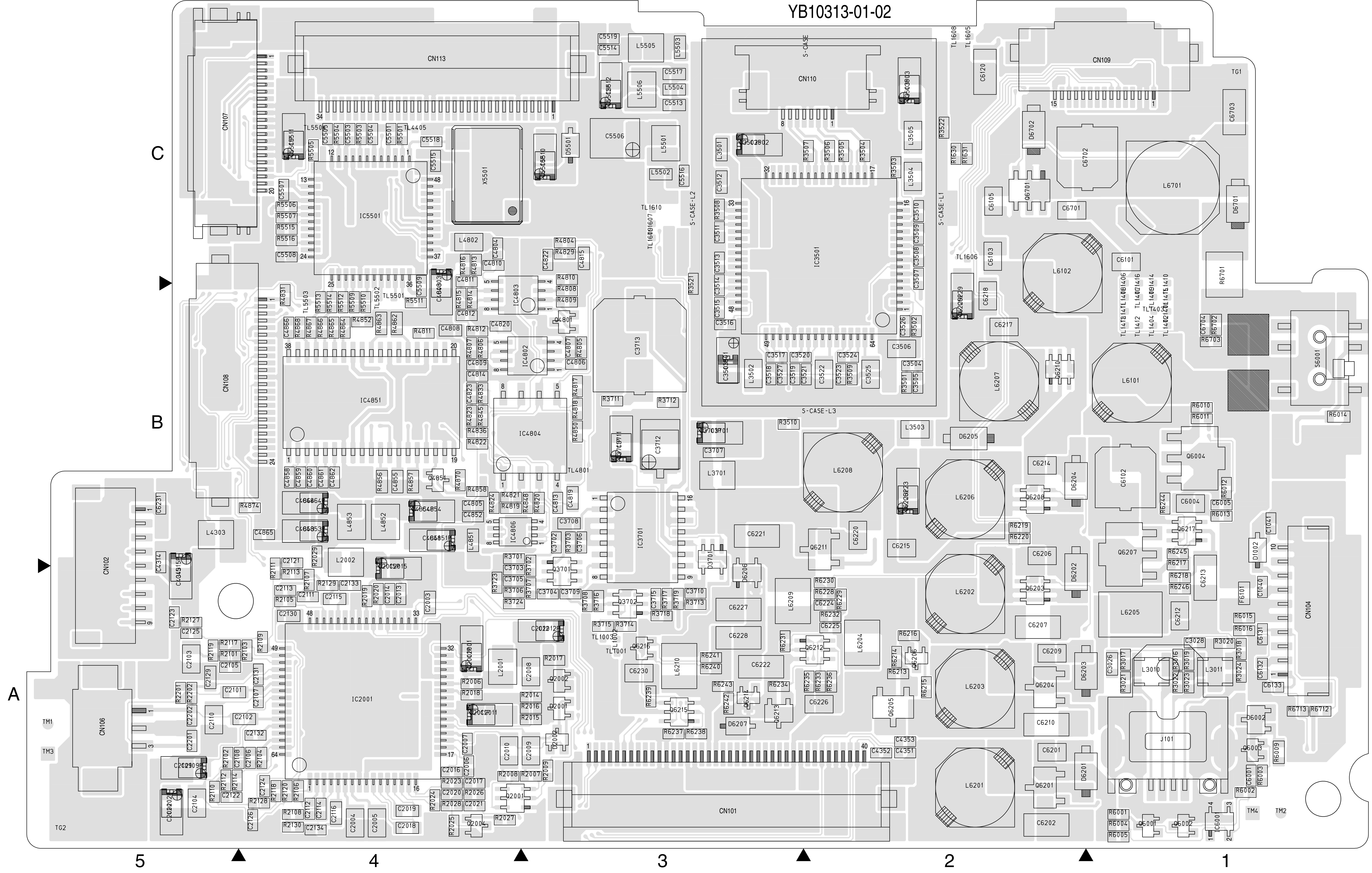
REF.NO.	LOCATION		
R4808	A	C	3B
R4809	A	C	3B
R4810	A	C	3C
R4811	A	C	4B
R4812	A	C	4B
R4813	A	C	4C
R4814	A	C	4B
R4815	A	C	4B
R4816	A	C	4C
R4817	A	C	3B
R4818	A	C	3B
R4819	A	C	4B
R4820	A	C	3B
R4821	A	C	4B
R4822	A	C	4B
R4823	A	C	4B
R4824	A	C	4B
R4829	A	C	3C
R4831	A	C	4B
R4833	A	C	4B
R4836	A	C	4B
R4845	A	C	4B
R4848	A	C	3B
R4850	A	C	3B
R4852	A	C	4B
R4856	A	C	4B
R4857	A	C	4B
R4858	A	C	4B
R4862	A	C	4B
R4863	A	C	4B
R4864	A	C	4B
R4865	A	C	4B
R4866	A	C	4B
R4867	A	C	4B
R4868	A	C	4B
R4870	A	C	4B
R4874	A	C	4B
R5501	A	C	4C
R5503	A	C	4C
R5504	A	C	4C
R5505	A	C	4C
R5506	A	C	4C
R5507	A	C	4C
R5509	A	C	4B
R5510	A	C	4B
R5511	A	C	4B
R5512	A	C	4B
R5513	A	C	4B
R5514	A	C	4B
R5515	A	C	4C
R5516	A	C	4C
R6001	A	C	1A
R6002	A	C	1A
R6003	A	C	1A
R6004	A	C	1A
R6005	A	C	1A
R6009	A	C	1A
R6010	A	C	1B
R6011	A	C	1B
R6012	A	C	1B
R6013	A	C	1B
R6014	A	C	1B
R6015	A	C	1A
R6016	A	C	1A
R6101	B	C	2C
R6102	B	C	2C
R6103	B	C	2C
R6104	B	C	1C
R6105	B	C	2C
R6106	B	C	2C
R6107	B	C	2C
R6108	B	C	2C
R6109	B	C	2C
R6110	B	C	2C
R6113	B	C	2C
R6114	B	C	2C
R6115	B	C	2C
R6116	B	C	2C
R6117	B	C	1C
R6118	B	C	1C
R6122	B	C	1C
R6123	B	C	2C
R6124	B	C	1C
R6201	B	C	2C
R6202	B	C	2C
R6203	B	C	2C
R6204	B	C	2C
R6205	B	C	2C
R6206	B	C	2C
R6207	B	C	2C
R6208	B	C	2C
R6209	B	C	2C
R6210	B	C	2C
R6211	B	C	2C

REF.NO.	LOCATION		
R6212	B	C	2C
R6213	A	C	2A
R6214	A	C	2A
R6215	A	C	2A
R6216	A	C	2A
R6217	A	C	1B
R6218	A	C	1A
R6219	A	C	2B
R6220	A	C	2B
R6221	B	C	2C
R6223	B	C	2C
R6224	B	C	2C
R6225	B	C	2C
R6226	B	C	2C
R6227	B	C	2C
R6228	A	C	2A
R6229	A	C	2A
R6230	A	C	2A
R6231	A	C	3A
R6232	A	C	2A
R6233	A	C	2A
R6234	A	C	3A
R6235	A	C	3A
R6236	A	C	2A
R6237	A	C	3A
R6238	A	C	3A
R6239	A	C	3A
R6240	A	C	3A
R6241	A	C	3A
R6242	A	C	3A
R6243	A	C	3A
R6244	A	C	1B
R6245	A	C	1B
R6246	A	C	1A
R6701	A	C	1C
R6702	A	C	1B
R6703	A	C	1B
R6712	A	C	1A
R6713	A	C	1A
RA1001	B	C	4A
RA1002	B	C	4A
RA1003	B	C	4A
RA1004	B	C	4A
RA1005	B	C	4A
RA1006	B	C	3A
RA1007	B	C	3A
RA1008	B	C	3A
RA1009	B	C	4A
RA1010	B	C	3A
RA1401	B	C	1B
RA1402	B	C	1B
RA1403	B	C	1B
RA3001	B	C	3A
RA3002	B	C	3A
RA4301	B	C	4C
RA4302	B	C	3C
RA4303	B	C	4C
TESTPOINT			
TP4319	B	C	4C
OTHER			
F6101	A	C	1A
J101	A	D	1A
S6001	A	C	1B
TL1001	A	C	3A
TL1002	A	C	3A
TL1003	A	C	3A
TL1301	B	C	4A
TL1401	A	C	1B
TL1402	A	C	1B
TL1403	A	C	1B
TL1404	A	C	1B
TL1406	A	C	1C
TL1407	A	C	1B
TL1408	A	C	1B
TL1409	A	C	1B
TL1410	A	C	1C
TL1411	A	C	1B
TL1412	A	C	1B
TL1413	A	C	1B
TL1414	A	C	1C
TL1415	A	C	1B
TL1416	A	C	1C
TL1601	B	C	2C
TL1602	B	C	3C
TL1603	B	C	3C
TL1604	B	C	3B
TL1605	A	C	2C
TL1606	A	C	2C
TL1607	A	C	3C
TL1608	A	C	2C
TL1609	A	C	3C
TL1610	A	C	3C
TL1611	B	C	3C

REF.NO.	LOCATION		
TL1612	B	C	3B
TL1613	B	C	3B
TL1614	B	C	3C
TL1615	B	C	3C
TL1616	B	C	2C
TL1617	B	C	2C
TL1618	B	C	2C
TL1619	B	C	2C
TL3001	B	C	1B
TL3002	B	C	2A
TL3004	B	C	1B
TL3501	B	C	1B
TL4201	B	C	5C
TL4202	B	C	5C
TL4203	B	C	5C
TL4301	B	C	5B
TL4302	B	C	4B
TL4303	B	C	4B
TL4304	B	C	5B
TL4305	B	C	4B
TL4306	B	C	4B
TL4307	B	C	4B
TL4308	B	C	4B
TL4309	B	C	4B
TL4310	B	C	4A
TL4311	B	C	4B
TL4312	B	C	4B
TL4313	B	C	4B
TL4314	B	C	4B
TL4315	B	C	3B
TL4316	B	C	3B
TL4317	B	C	3B
TL4318	B	C	5B
TL4405	A	C	4C
TL4801	A	C	3B
TL5501	A	C	4B
TL5502	A	C	4B
TL5503	A	C	4B
TL5504	A	C	4C
TM1	A	C	5A
TM2	A	C	1A
TM3	A	C	5A
TM4	A	C	1A
X1001	B	C	3A
X1002	B	C	5A
X3002	B	C	2A
X5501	A	C	4C

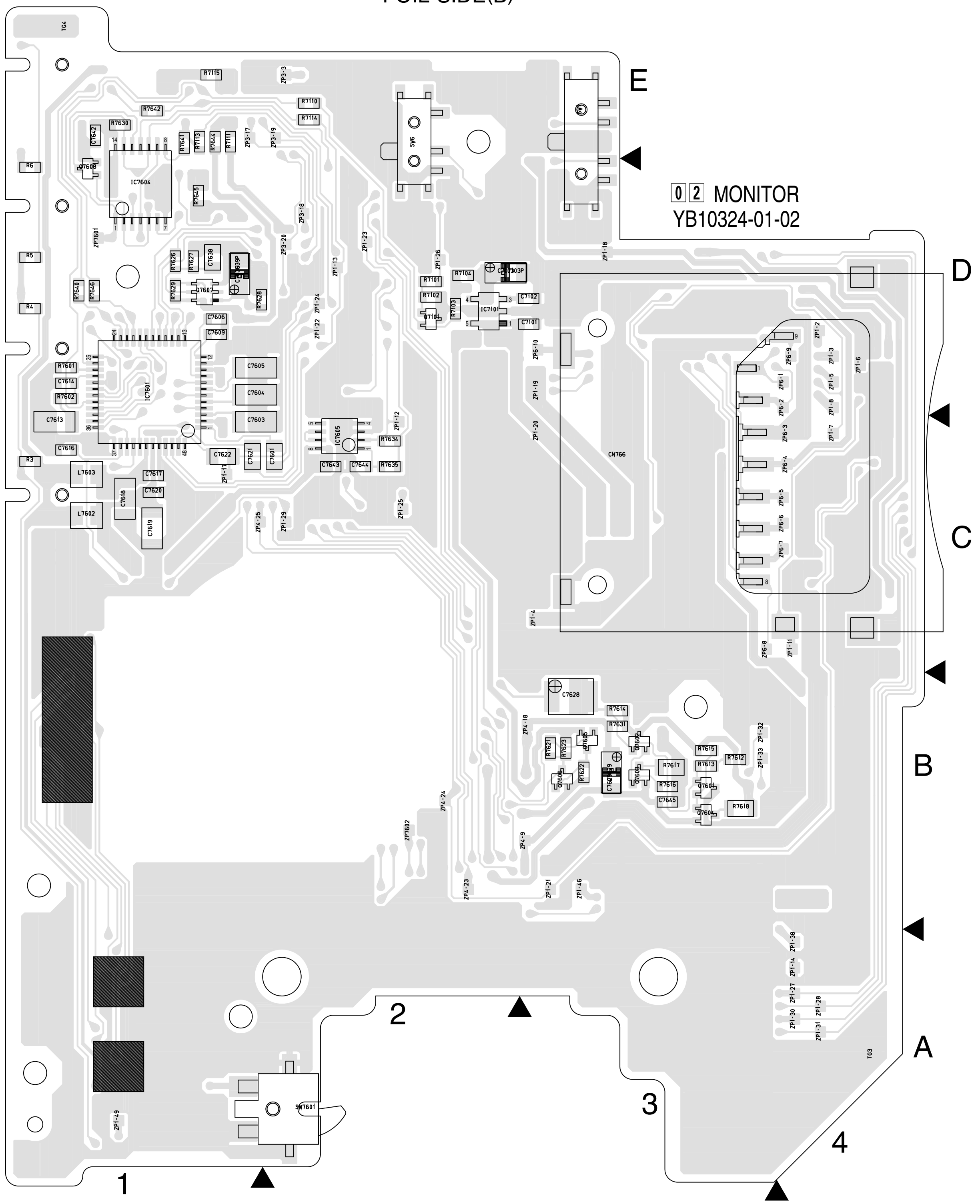
COMPONENT SIDE(A)

01 MAIN PWB
YB10313-01-02

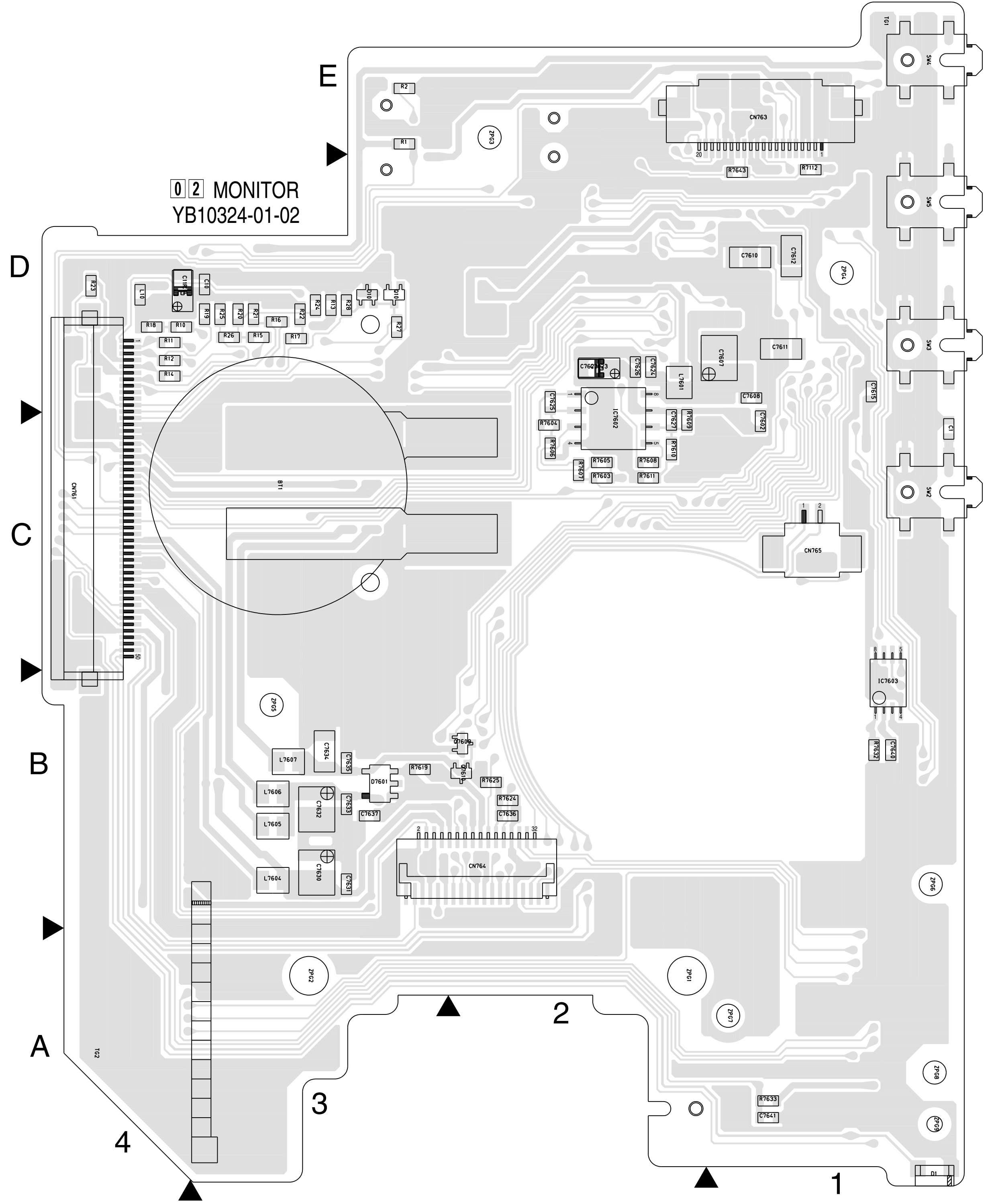

CN113
CN107
CN108
CN102
CN106
CN110
CN109
CN104
CN101
IC5501
IC4851
IC4802
IC4803
IC4804
IC4806
IC3501
IC3701
IC2001
X5501
L6701
L6102
L6101
L6207
L6208
L6206
L6202
L6203
L6201
J101
S6001
S-CASE
S-CASE-L1
S-CASE-L2
S-CASE-L3
TG1
TG2
TM1
TM2
TM3
TM4
C
B
A
5
4
3
2
1

4.22 MONITOR CIRCUIT BOARD

FOIL SIDE(B)



COMPONENT SIDE(A)



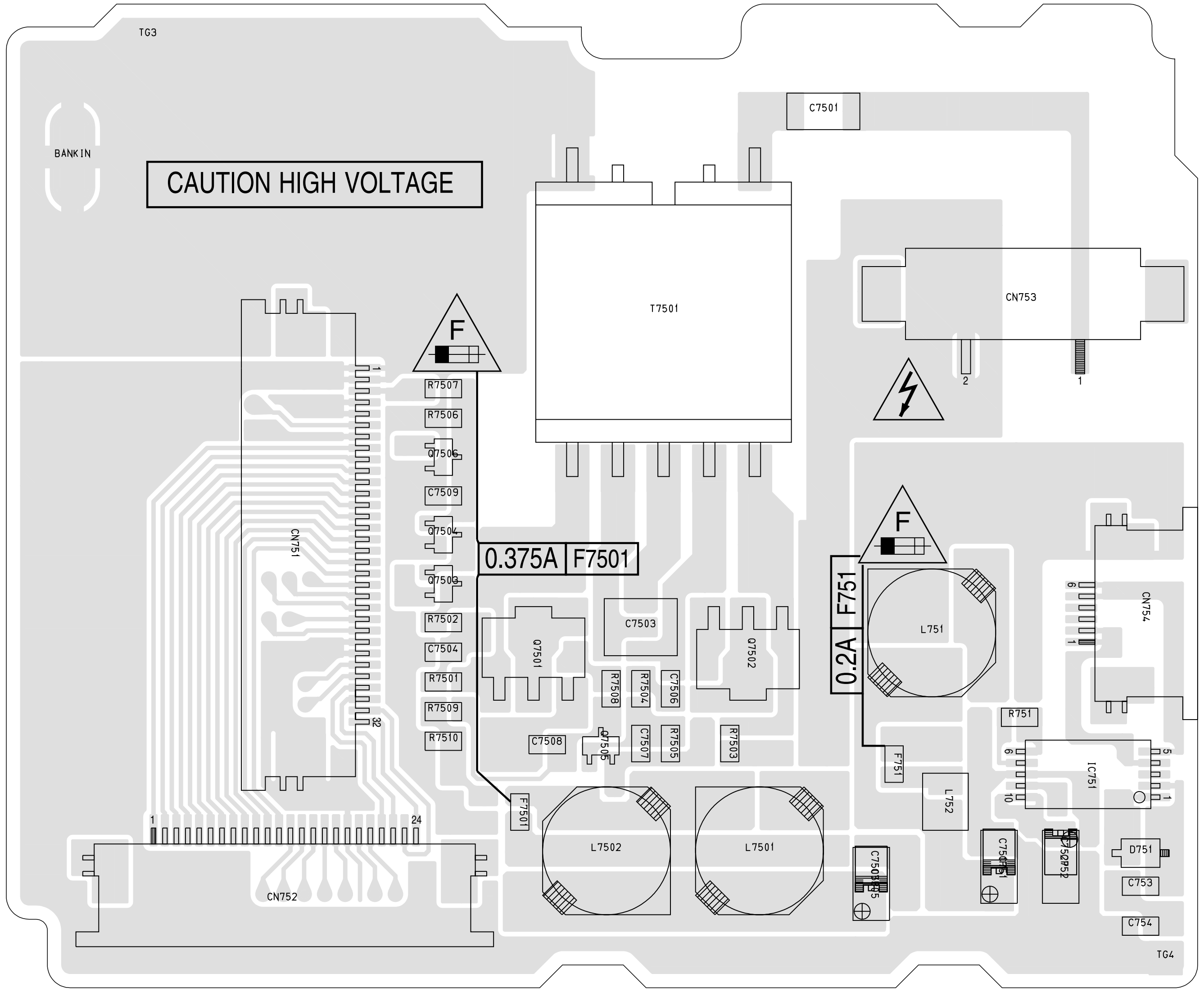
COMPONENT PARTS LOCATION GUIDE ＜MONITOR＞

REF.NO.	LOCATION		
CAPACITOR			
C1	A	C	1C
C10	A	C	3D
C11	A	C	4D
C7101	B	C	3D
C7102	B	C	3D
C7103	B	C	2D
C7601	B	C	2C
C7602	A	C	1C
C7603	B	C	2C
C7604	B	C	2D
C7605	B	C	2D
C7606	B	C	1D
C7607	A	C	1D
C7608	A	C	1D
C7609	B	C	1D
C7610	A	C	1D
C7611	A	C	1D
C7612	A	C	1D
C7613	B	C	1C
C7614	B	C	1D
C7615	A	C	1D
C7616	B	C	1C
C7617	B	C	1C
C7618	B	C	1C
C7619	B	C	1C
C7620	B	C	1C
C7621	B	C	2C
C7622	B	C	1C
C7623	A	C	2D
C7624	A	C	2D
C7625	A	C	2D
C7626	A	C	2D
C7627	A	C	2C
C7628	B	C	3B
C7629	B	C	3B
C7630	A	C	3B
C7631	A	C	3B
C7632	A	C	3B
C7633	A	C	3B
C7634	A	C	3B
C7635	A	C	3B
C7636	A	C	2B
C7637	A	C	3B
C7638	B	C	1D
C7639	B	C	1D
C7640	A	C	1B
C7641	A	C	1A
C7642	B	C	1E
C7643	B	C	2C
C7644	B	C	2C
C7645	B	C	3B
CONNECTOR			
CN761	A	C	4D
CN763	A	C	1E
CN764	A	C	3B
CN765	A	C	1C
CN766	B	C	4C
DIODE			
D1	A	C	1A
D10	A	C	3D
D7601	A	C	3B
IC			
IC7101	B	C	2D
IC7601	B	C	1D
IC7602	A	C	2C
IC7603	A	C	1B
IC7604	B	C	1D
IC7605	B	C	2C
COIL			
L10	A	C	4D
L7601	A	C	2D
L7602	B	C	1C
L7603	B	C	1C
L7604	A	C	3B
L7605	A	C	3B
L7606	A	C	3B
L7607	A	C	3B
TRANSISTOR			
Q10	A	C	3D
Q7101	B	C	2D
Q7601	B	C	3B
Q7602	B	C	3B
Q7603	B	C	3B
Q7604	B	C	3B
Q7605	B	C	3B
Q7606	B	C	3B
Q7607	B	C	1D
Q7608	B	C	1D
Q7609	A	C	2B
Q7610	A	C	2B
RESISTOR			
R1	A	C	3E
R2	A	C	3E
R3	B	C	1C
R4	B	C	1D
R5	B	C	1D
R6	B	C	1D
R10	A	C	4D
R11	A	C	4D
R12	A	C	4D
R13	A	C	3D
R14	A	C	4D
R15	A	C	3D
R16	A	C	3D
R17	A	C	3D
R18	A	C	4D
R19	A	C	3D
R20	A	C	3D
R21	A	C	3D
R22	A	C	3D
R23	A	C	4D
R24	A	C	3D
R25	A	C	3D
R26	A	C	3D
R27	A	C	3D
R28	A	C	3D
R7101	B	C	2D
R7102	B	C	2D
R7103	B	C	2D
R7104	B	C	2D
R7110	B	C	2E
R7111	B	C	1E
R7112	A	C	1D
R7113	B	C	1E
R7114	B	C	2E
R7115	B	C	1E
R7601	B	C	1D
R7602	B	C	1D
R7603	A	C	2C
R7604	A	C	2C
R7605	A	C	2C
R7606	A	C	2C
R7607	A	C	2C
R7608	A	C	2C
R7609	A	C	2C
R7610	A	C	2C
R7611	A	C	2C
R7612	B	C	3B
R7613	B	C	3B
R7614	B	C	3B
R7615	B	C	3B
R7616	B	C	3B
R7617	B	C	3B
R7618	B	C	3B
R7619	A	C	3B
R7621	B	C	3B
R7622	B	C	3B
R7623	B	C	3B
R7624	A	C	2B
R7625	A	C	2B
R7626	B	C	1D
R7627	B	C	1D
R7628	B	C	2D
R7629	B	C	1D
R7630	B	C	1E
R7631	B	C	3B
R7632	A	C	1B
R7633	A	C	1A
R7634	B	C	2C
R7635	B	C	2C
R7640	B	C	1D
R7641	B	C	1E
R7642	B	C	1E
R7643	A	C	1D
R7644	B	C	1E
R7645	B	C	1D
R7646	B	C	1D
OTHER			
BT1	A	C	3C
C11P	A	C	4D
C7103P	B	C	3D
C7623P	A	C	2D
C7629P	B	C	3B
C7639P	B	C	1D
SW1	B	C	3E
SW2	A	C	1C
SW3	A	C	1D
SW4	A	C	1E
SW5	A	C	1D
SW6	B	C	2E
SW7601	B	C	2A
TM1	A	C	4A
ZP1-2	B	C	4D
ZP1-3	B	C	4D
ZP1-4	B	C	3C
ZP1-5	B	C	4D
ZP1-6	B	C	4D
ZP1-7	B	C	4C
ZP1-8	B	C	4D
ZP3-3	B	C	2E
ZP4-9	B	C	3B
ZP6-1	B	C	4D
ZP6-2	B	C	4D
ZP6-3	B	C	4C
ZP6-4	B	C	4C
ZP6-5	B	C	4C
ZP6-6	B	C	4C
ZP6-7	B	C	4C
ZP6-8	B	C	4C
ZP6-9	B	C	4D
ZP1-11	B	C	4C
ZP1-12	B	C	2C
ZP1-13	B	C	2D
ZP1-14	B	C	4A
ZP1-17	B	C	1C
ZP1-18	B	C	3D
ZP1-19	B	C	3D
ZP1-20	B	C	3C
ZP1-21	B	C	3B
ZP1-22	B	C	2D
ZP1-23	B	C	2D
ZP1-24	B	C	2D
ZP1-25	B	C	2C
ZP1-26	B	C	2D
ZP1-27	B	C	4A
ZP1-28	B	C	4A
ZP1-29	B	C	2C
ZP1-30	B	C	4A
ZP1-31	B	C	4A
ZP1-32	B	C	3B
ZP1-33	B	C	3B
ZP1-38	B	C	4A
ZP1-46	B	C	3B
ZP1-49	B	C	1A
ZP3-17	B	C	1E
ZP3-18	B	C	2D
ZP3-19	B	C	2E
ZP3-20	B	C	2D
ZP4-18	B	C	3B
ZP4-23	B	C	2B
ZP4-24	B	C	2B
ZP4-25	B	C	2C
ZP6-10	B	C	3D
ZP7601	B	C	1D
ZP7602	B	C	2B
ZPG1	A	D	2A
ZPG2	A	D	3A
ZPG3	A	D	2E
ZPG4	A	D	1D
ZPG5	A	D	3B
ZPG6	A	D	1B
ZPG7	A	D	1A
ZPG8	A	D	1A
ZPG9	A	D	1A

4.23 LCD BL CIRCUIT BOARD

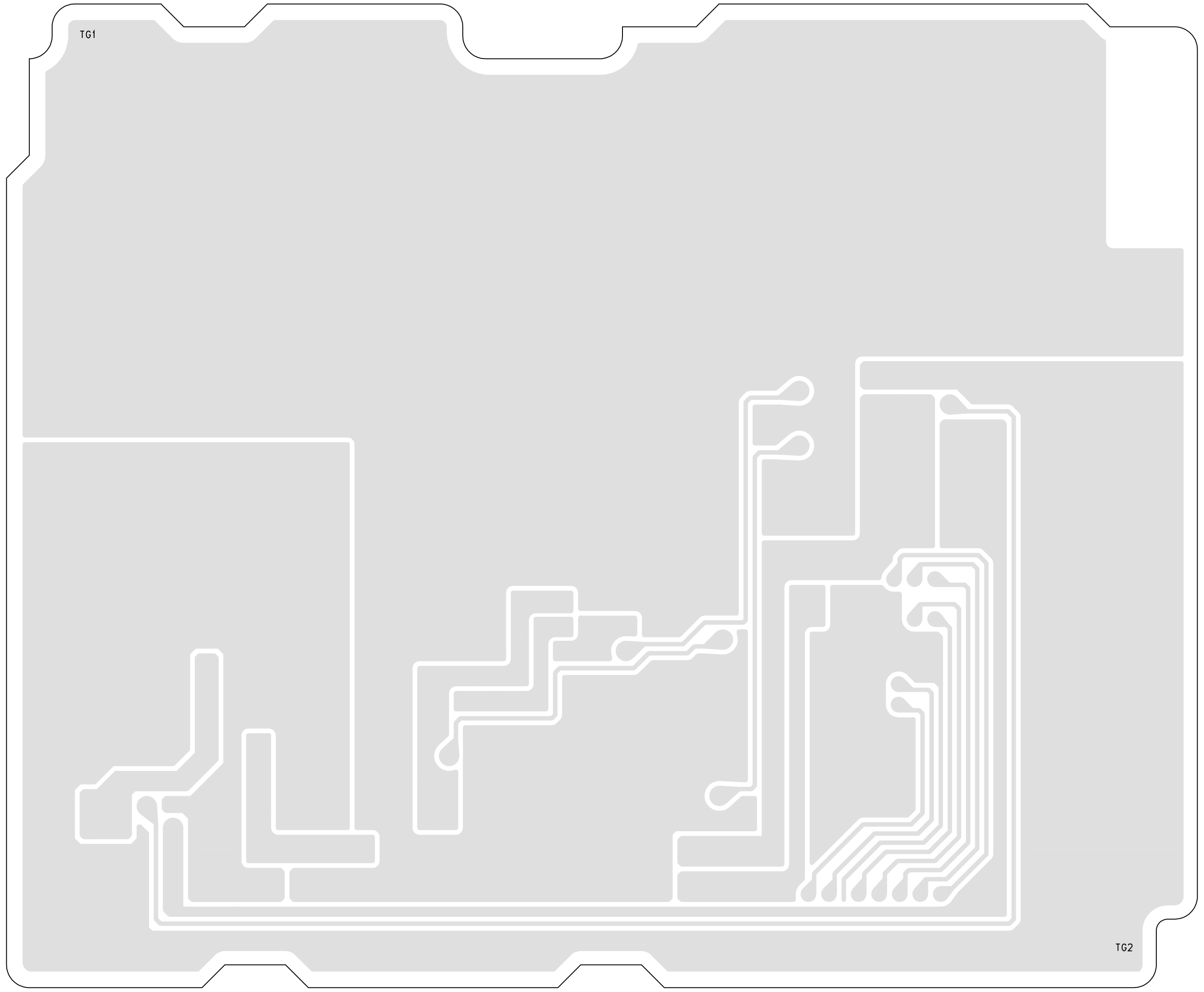
FOIL SIDE(B)

03 LCD BL
YB10324-01-02


TG3
BANKIN
CAUTION HIGH VOLTAGE
C7501
T7501
CN753
2
1
F
R7507
R7506
Q7506
C7509
Q7504
Q7503
R7502
C7504
R7501
R7509
R7510
CN751
1
33
0.375A
F7501
C7503
Q7501
Q7502
R7508
R7504
C7506
C7508
Q7505
C7507
R7505
R7503
F7501
L7502
L7501
1
24
CN752
0.2A
F751
L751
CN754
6
1
R751
IC751
F751
L752
C7505
C7502
C752
D751
C753
C754
TG4

COMPONENT SIDE(A)

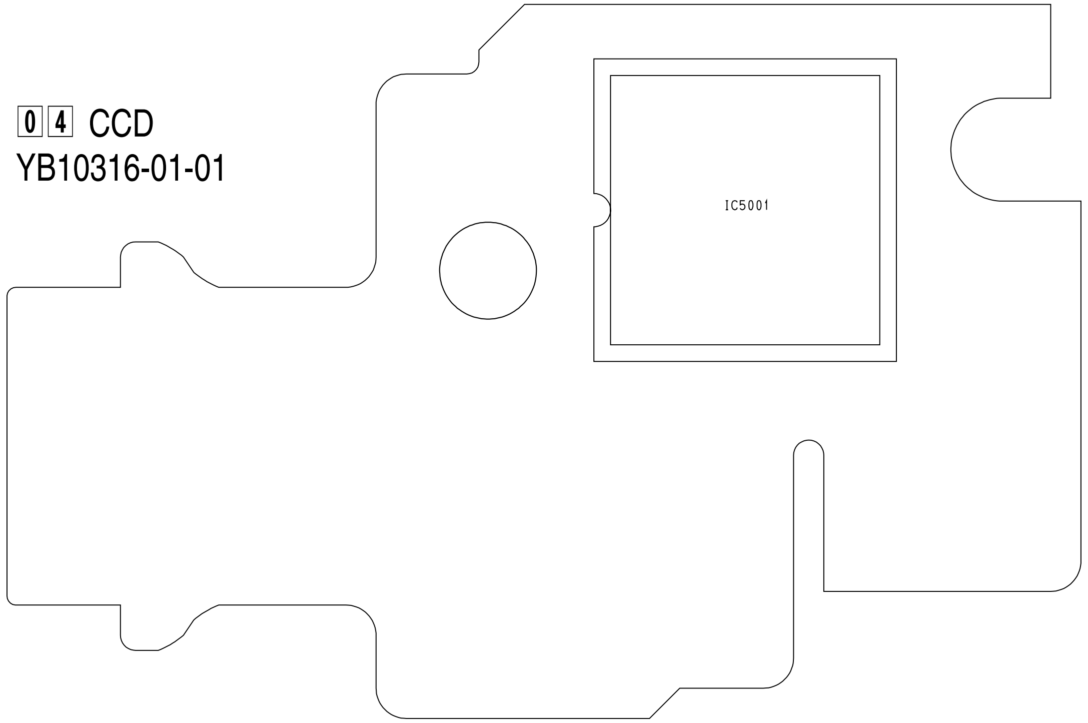
03 LCD BL
YB10324-01-02



4.24 CCD AND JUNCTION CIRCUIT BOARDS

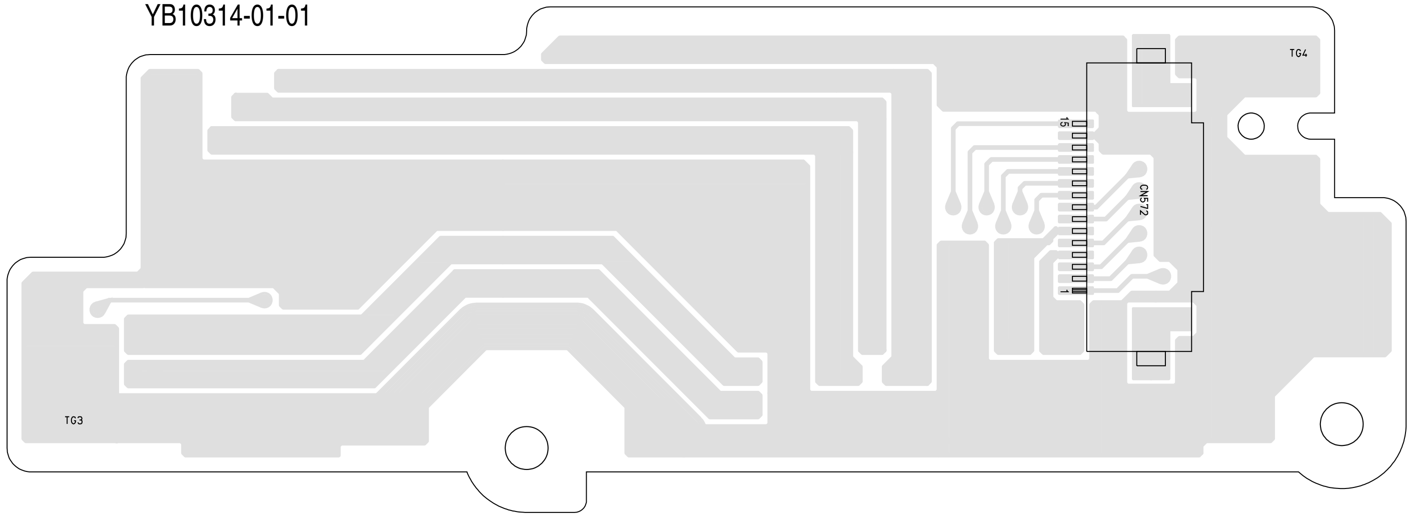
FOIL SIDE(B)

04 CCD
YB10316-01-01



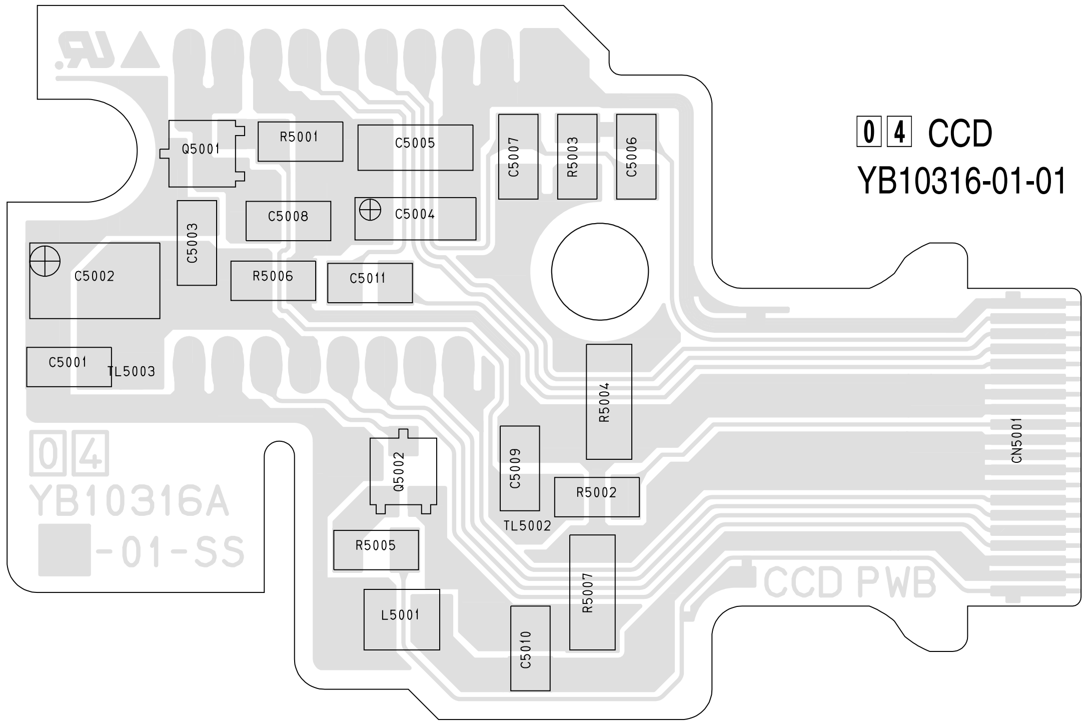
05 JUNCTION
YB10314-01-01

FOIL SIDE(B)


TG4
15
CN572
1
TG3

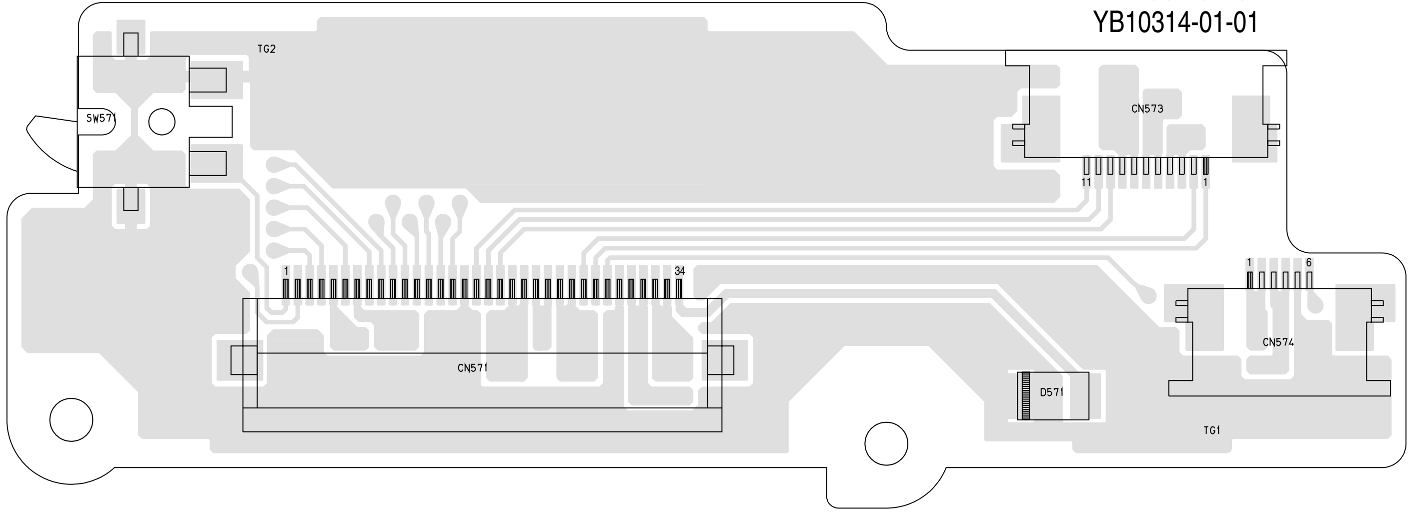
COMPONENT SIDE(A)

04 CCD
YB10316-01-01


Q5001
R5001
C5005
C5007
R5003
C5006
C5008
C5004
C5003
C5002
R5006
C5011
C5001
TL5003
R5004
04
YB10316A
-01-SS
Q5002
C5009
R5002
TL5002
CN5001
R5005
R5007
L5001
C5010
CCD PWB

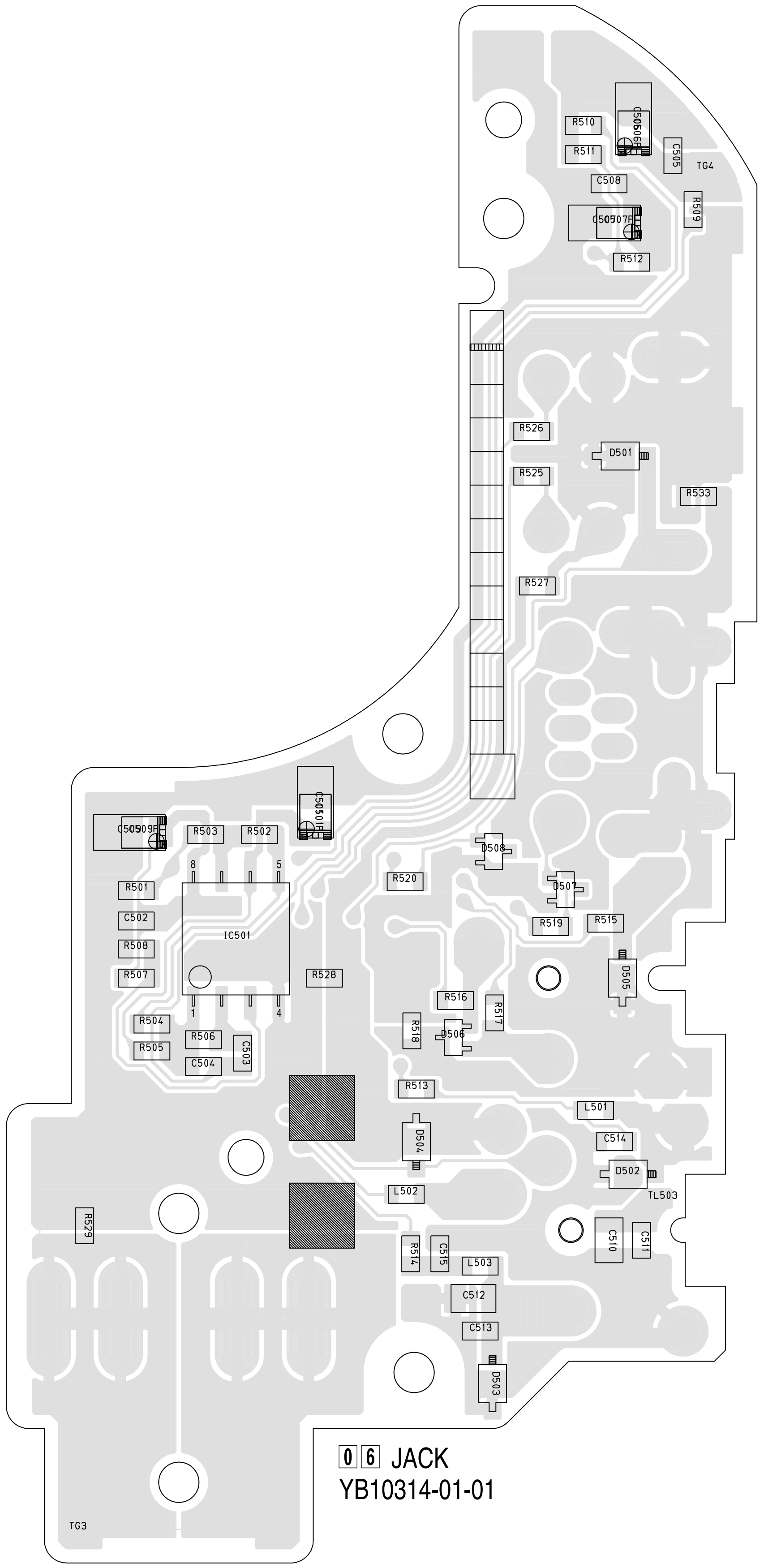
COMPONENT SIDE(A)

05 JUNCTION
YB10314-01-01

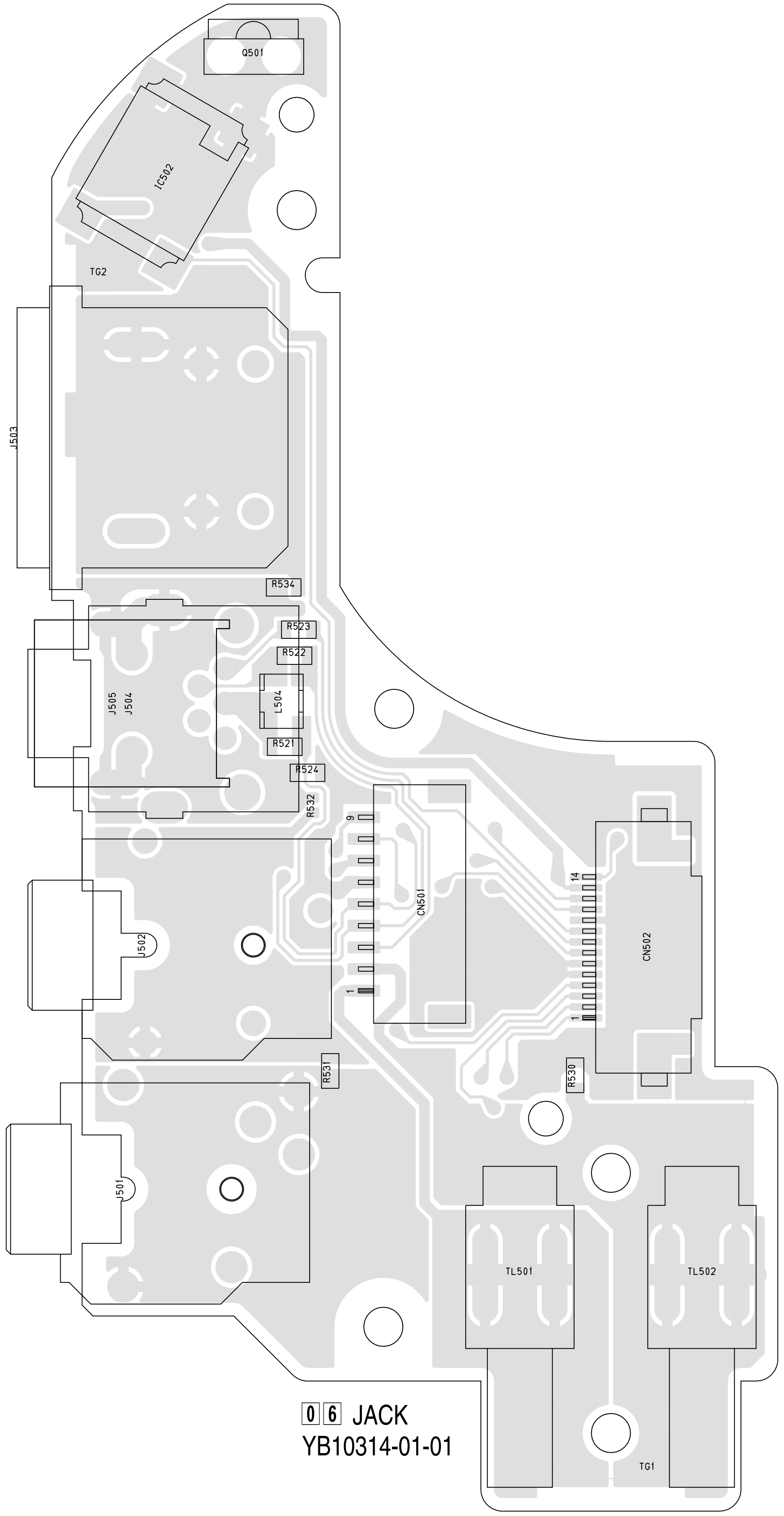

TG2
SW571
CN573
11
1
1
34
1
6
CN571
CN574
D571
TG1

4.25 JACK CIRCUIT BOARD

FOIL SIDE(B)


R510
R511
C506
C505
TG4
C508
C507
R509
R512
R526
D501
R525
R533
R527
C509
R503
R502
C501
8
5
R501
R520
D508
D507
C502
IC501
R519
R515
R508
R507
R528
D505
R516
R517
R518
D506
1
4
R504
R506
C503
R505
C504
R513
L501
D504
C514
D502
TL503
L502
R529
R514
C515
L503
C510
C511
C512
C513
D503
TG3
06 JACK
YB10314-01-01

COMPONENT SIDE(A)


Q501
IC502
TG2
J503
R534
R523
R522
J505
J504
L504
R521
R524
R532
9
CN501
1
14
CN502
1
J502
R531
R530
J501
TL501
TL502
TG1
06 JACK
YB10314-01-01

4.26 VOLTAGE CHARTS

<SYSCON>

MODE PIN NO.	REC	PLAY
IC1001	-	-
IC1002		
1	0	0
2	3.0	3.0
3	1.5	1.5
4	0	0
5	2.9	2.9
6	0.5	0.5
7	0.5	0.5
8	3.1	3.1
IC1003		
1	3.0	3.0
2	0.7	0.7
3	2.9	3.0
4	0	0
5	0.6	0.7
6	3.0	3.0
7	2.9	2.9
8	2.9	2.9
IC1004		
1	1.4	1.4
2	0	0
3	1.3	1.3
4	0	0
5	3.0	3.0
IC1005		
1	0	0
2	3.0	3.0
3	0	0
4	3.0	3.0
5	3.0	3.0
IC1006		
1	2.7	2.7
2	0.5	0.5
3	0	0
4	3.0	3.0
5	3.0	3.0
6	3.0	3.0
7	1.3	1.3
8	1.4	1.4
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	2.9	2.9
20	2.7	2.7
IC1007		
1	3.0	3.0
2	3.0	3.0
3	3.0	3.0
4	3.0	3.0
5	3.0	3.0
6	3.0	3.0
7	0	0
8	3.0	3.0
9	3.0	3.0
10	3.0	3.0
11	1.3	1.3
12	1.5	1.5
13	3.0	3.0
14	3.0	3.0
IC1009		
1	0	0
2	0	0
3	3.0	3.0
4	3.0	3.0
Q1001		
E	0	0
C	0	0
B	0	0
Q1002		
E	0	0
C	3.0	3.0
B	0.6	0.6
Q1003		
E	0	0
C	0.5	0.5
B	0	0
Q1004		
E	3.1	3.1
C	0	0
B	3.1	3.1
Q1005		
E	0	0
C	3.1	3.1
B	0	0
Q1006		
E	2.9	0
C	2.9	0
B	0	3.0
Q1007		
E	0	0
C	0	3.0
B	3.1	0

<PC IF>

MODE PIN NO.	REC	PLAY
IC1301	-	-
IC1302	-	-
IC1303		
1	3.0	3.0
2	0	0
3	0	0
4	0	0
5	3.0	3.0
IC1304		
1	3.0	3.0
2	0	0
3	0	0
4	0	0
5	3.0	3.0
Q1301		
E	0	0
C	0	0
B	0	0

<VTR CPU>

MODE PIN NO.	REC	PLAY
IC1401	-	-
IC1402	-	-
IC1403		
1	3.0	3.0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	3.0	3.0
8	3.0	3.0
IC1404		
1	-	-
2	2.9	2.9
3	-	-
4	0	0
5	-	-
6	0	0
7	-	-
8	2.9	2.9
Q1401		
1	3.0	3.0
2	3.0	3.0
3	3.0	3.0
Q1402		
1(E)	0	0
2(B)	3.0	3.0
3(E)	3.0	3.0
4(C)	2.7	2.7
5(C)	0	0
Q1403		
1(E)	0	0
2(B)	0	0
3(E)	3.0	3.0
4(C)	0	0
5(C)	3.0	3.0
Q1404		
1	0	0
2	0	0
3	3.0	3.0

<MDA>

MODE PIN NO.	REC	PLAY
IC1601		
1	0	0
2	0.8	0.8
3	0.8	0
4	0	0
5	0.8	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	4.7	4.7
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0.4	0.4
21	0	0
22	0	0
23	0.9	0.9
24	11.0	11.0
25	1.5	1.5
26	0	0
27	1.5	1.5
28	1.5	1.5
29	1.5	1.5
30	1.5	1.5
31	1.5	1.5
32	1.5	1.5
33	1.4	0
34	1.4	0
35	0	0
36	2.9	2.9
37	0	0
38	0.6	0.6
39	0	0.6
40	0	1.2
41	1.5	0
42	0.5	0.7
43	2.9	2.9
44	0	0
45	0	0
46	0	0
47	0.9	2.9
48	0	0
49	2.9	2.9
50	1.9	1.9
51	0	0
52	1.6	1.6
53	0	1.1
54	0.4	0.7
55	0.6	0.6
56	0.7	0.7
57	1.0	1.0
58	0.6	0.6
59	0	0
60	1.0	1.0
61	2.6	0
62	0	1.2
63	0	1.5
64	0	1.5
65	0	1.4
66	0	0
67	0	1.5
68	0.4	0
69	0	0
70	0	0.8
71	0	0.8
72	0	0.8
73	0.8	0
74	1.1	0
75	0	0
76	0	0
77	0	0
78	0	1.7
79	0	0
80	0	0
Q1601		
1(E)	0	0
2(B)	0	0
3(E)	4.8	4.8
4(C)	0	0
5(C)	4.8	4.8

<AUDIO>

MODE PIN NO.	REC	PLAY
IC2001		
1	2.0	2.0
2	2.0	2.0
3	2.0	2.0
4	2.0	2.0
5	1.5	1.5
6	1.5	1.5
7	1.5	1.5
8	0	0
9	3.0	3.0
10	1.5	1.5
11	1.5	1.5
12	1.5	1.5
13	1.5	1.5
14	1.5	1.5
15	1.5	1.5
16	1.5	1.5
17	1.5	1.5
18	1.5	0
19	1.5	2.3
20	2.3	2.3
21	1.5	1.4
22	2.3	2.3
23	2.3	2.3
24	4.7	4.7
25	2.3	2.3
26	0	0
27	2.9	2.9
28	0	0
29	1.5	1.5
30	1.5	1.5
31	1.5	1.7
32	2.9	1.7
33	3.0	3.0
34	1.5	1.5
35	1.5	1.5
36	1.5	1.5
37	3.0	3.1
38	2.4	3.1
39	0	0
40	2.4	2.4
41	0	0
42	0	0
43	4.8	4.8
44	1.5	1.5
45	2.0	2.0
46	2.0	2.0
47	2.0	2.0
48	2.0	2.0
49	2.0	2.0
50	2.0	2.0
51	2.0	2.0
52	2.6	2.6
53	2.0	2.0
54	2.0	2.0
55	4.0	4.0
56	2.0	2.0
57	0	0
58	4.0	4.0
59	2.0	2.0
60	2.0	2.0
61	2.0	2.0
62	2.0	2.0
63	2.0	2.0
64	2.0	2.0
Q2001		
1(E)	0	0
2(B)	0	0
3(C)	0	0
4(E)	0	0
5(B)	0	0
6(C)	0	0
Q2002		
E	4.1	4.1
C	4.8	4.8
B	4.7	4.7
Q2004		
E	0	0
C	0	0
B	0.7	0.7

<DV MAIN>

MODE PIN NO.	REC	PLAY
IC3001	-	-
IC3002		
1	0	0.4
2	0	0
3	0	0
4	0.5	1.5
5	0.7	0
6	2.9	0
7	0	0
8	3.0	2.9
IC3003		
1	3.0	2.9
2	1.0	0.9
3	0	0
4	0	0
5	0	0
6	0.5	1.5
7	2.3	2.3
8	3.0	2.9
IC3004		
1	0.5	0
2	0.5	0
3	0	0
4	0.8	2.9
5	2.9	2.9
IC3006		
1	2.9	2.9
2	0	0
3	0	0
4	0	0
5	2.9	2.9
6	0	0
7	1.0	1.5
8	1.3	0.7
9	1.3	1.3
10	0	0
11	0	0
12	2.9	2.9
13	0	0
14	0	0
15	0.5	0.5
16	0	0
IC3007	-	-

<PRE/REC>

MODE PIN NO.	REC	PLAY
IC3501		
1	0	0
2	1.1	1.1
3	0	0
4	0	0
5	0	2.5
6	3.3	0
7	1.4	0
8	0	0
9	1.6	3.0
10	0	1.6
11	3.0	0
12	0	0
13	4.8	4.8
14	0	0
15	0	0
16	0	0
17	0	0
18	3.7	1.7
19	3.4	1.7
20	3.5	0
21	3.7	1.7
22	0	0
23	3.7	1.7
24	3.5	1.7
25	3.5	1.7
26	3.7	1.7
27	0	0
28	2.3	2.5
29	3.4	1.7
30	3.4	1.7
31	2.4	2.5
32	0	0
33	0	0
34	0	0
35	1.8	1.8
36	0.4	0
37	3.0	3.0
38	0	3.0
39	3.0	3.0
40	1.5	1.5
41	0	3.0
42	3.0	0
43	4.8	4.8
44	2.9	0
45	0	0
46	0	1.9
47	0	2.0
48	4.7	3.0
49	4.4	2.8
50	0.4	1.6
51	1.2	1.2
52	0.8	1.5
53	0	0
54	3.2	2.6
55	2.5	1.9
56	1.1	1.1
57	2.5	1.9
58	2.5	1.3
59	0	0
60	1.2	1.2
61	3.4	1.9
62	2.5	1.9
63	2.5	1.3
64	2.5	1.9

<V OUT>

MODE PIN NO.	REC	PLAY
IC3701		
1	0	0
2	2.3	2.3
3	0	0
4	0	0
5	0	0
6	0	0
7	1.9	1.9
8	0	0
9	2.3	2.3
10	0	0
11	2.0	2.0
12	2.2	2.2
13	4.8	4.8
14	1.8	1.8
15	1.9	1.9
16	4.8	4.8
Q3701		
1(E)	1.1	1.1
2(E)	1.2	0
3(B)	0.6	0.6
4(C)	0	0
5(B)	0	0.5
6(C)	0	0
Q3702		
1(E)	0	0
2(B)	0	0
3(C)	0	0
4(E)	4.7	0
5(B)	4.7	4.8
6(C)	0	0

<CAM DSP>

MODE PIN NO.	REC	PLAY
IC4201		
1	0	0
2	1.1	0
3	1.1	0
4	1.0	0
5	0.7	0
6	0.7	0
7	2.2	3.0
8	0.5	0
9	0.7	0
10	0.4	0
11	0	0
12	0	0
13	0	0
14	0	0
15	2.9	3.0
16	1.2	0
17	2.8	0
18	2.1	0
19	0	0
20	2.4	0
21	0	0
22	0	0
23	3.0	0
24	0	0
25	0	0
26	1.9	0
27	1.4	0
28	1.9	0
29	2.1	0
30	0	0
31	3.0	3.0
32	1.9	0
33	0.9	0
34	1.4	0
35	1.2	0
36	0	0
37	0	0
38	3.0	3.0
39	0	0
40	0	0
41	3.0	3.0
42	0	0
43	3.0	3.0
44	3.0	0
45	0	1.5
46	3.0	3.0
47	0	0
48	0	0
IC4202		
1	4.8	4.8
2	0	0
3	1.2	1.2
4	3.0	3.0
5	4.8	4.8
IC4301	-	-
IC4302		
1	0	0
2	0	1.4
3	1.4	0.9
4	0.9	0.9
5	0.9	0.9
6	0.9	0.9
7	0.8	0.8
8	1.2	1.2
9	1.2	1.3
10	1.8	1.9
11	1.0	1.1
12	1.2	1.0
13	1.2	1.1
14	1.3	1.1
15	1.3	1.4
16	0	0
17	2.7	2.6
18	2.9	2.9
19	0	3.0
20	0	0
21	3.0	3.0
22	2.7	2.7
23	2.7	2.7
24	0	0
25	1.3	1.5
26	1.5	1.4
27	1.4	1.3
28	1.3	1.3
29	1.2	1.2
30	1.8	1.8
31	1.5	1.5
32	1.4	1.3
33	1.1	1.1
34	1.2	1.3
35	1.1	0
36	1.1	1.2
37	1.6	1.6
38	0	0
Q4301		
1(E)	0.9	0.9
2(E)	0.9	0.9
3(B)	0	0
4(C)	0	0
5(B)	0	0
6(C)	0	0
Q4302		
1(E)	1.2	1.2
2(E)	0	0.9
3(B)	0	0
4(C)	0	0
5(B)	0.6	0.6
6(C)	0	0

<OP DRIVE>

MODE PIN NO.	REC	PLAY
IC4802		
1	2.9	2.9
2	2.6	2.6
3	2.6	2.6
4	0	0
5	2.6	2.6
6	2.6	2.6
7	2.6	2.6
8	4.7	4.7
IC4803		
1	1.0	1.0
2	0	0
3	0	0
4	0	0
5	2.6	2.6
6	2.6	2.6
7	2.4	3.3
8	4.7	4.8
IC4804		
1	2.2	0
2	2.4	3.0
3	2.4	2.9
4	0	0
5	1.8	3.0
6	1.8	3.0
7	1.2	0
8	4.7	4.8
IC4806		
1	2.4	3.0
2	2.4	3.0
3	2.4	3.0
4	0	0
5	3.0	3.0
6	0.6	0
7	0.6	0
8	3.0	3.0
IC4851		
1	0	0
2	0.6	0.6
3	0	0.4
4	0.4	0
5	0	0.4
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	0	0
21	0.7	0
22	0	0
23	4.8	4.8
24	0	0
25	0	0
26	0	0
27	4.8	4.8
28	0	0
29	0	0
30	0	0
31	3.0	3.0
32	0	0
33	0	0
34	1.3	1.5
35	3.0	3.0
36	1.4	1.4
37	1.4	1.4
38	3.1	3.1
Q4801		
E	0	0
C	2.3	2.3
B	1.0	1.0
Q4851		
E	0	0
C	3.8	3.8
B	0	0
37	2.9	0
38	3.0	3.0
39	0	0
40	0	0
41	-6.3	0
42	0	11.9
43	11.9	11.9
44	-6.2	11.9
45	-6.6	-6.7
46	-6.6	0
47	0	0
48	2.9	0

<TG/VDRV>

MODE PIN NO.	REC	PLAY
IC5501		
1	-0.5	-0.7
2	2.4	0
3	2.9	0
4	2.9	2.9
5	0	0
6	2.9	2.9
7	0	0
8	0.5	0
9	0	0
10	2.9	2.9
11	1.4	0
12	2.9	2.9
13	0	0
14	1.2	0
15	0	0
16	2.9	2.9
17	2.2	0
18	2.2	0
19	2.2	0
20	0	0
21	0	0
22	0	0
23	0	0
24	2.9	2.9
25	1.3	0
26	3.0	3.0
27	0	0
28	1.2	1.8
29	0	0
30	1.3	1.5
31	0	0
32	0	0
33	2.9	2.9
34	1.5	0
35	1.2	0
36	2.9	0

<REG>

MODE PIN NO.	REC	PLAY
IC6001		
1	8.0	8.0
2	10.4	10.4
3	0	0
4	0	0
IC6101		
1	3.1	3.1
2	3.1	3.1
3	3.1	3.1
4	1.5	1.5
5	3.1	3.1
6	0	0
7	1.3	1.3
8	11.0	11.0
9	1.0	1.0
10	1.2	1.2
11	2.1	2.1
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	2.2	2.2
20	0.9	0.9
21	0	0
22	2.2	2.2
23	1.0	1.0
24	0.6	0.6
25	1.0	1.0
26	0.5	0.5
27	1.0	1.0
28	0.8	0.8
29	1.0	1.0
30	0.9	0.9
31	0	0
32	0	0
33	0.5	0.5
34	0	0
35	0	0
36	0.5	0.5
37	0.8	0.8
38	0	0
39	1.0	1.0
40	0	0
41	2.4	2.4
42	1.1	1.1
43	0	0
44	2.1	2.1
45	2.1	2.1
46	2.1	2.1
47	8	8
48	1.0	1.0
49	1.1	1.1
50	2.1	2.1
51	11.0	11.0
52	0	0
53	10.2	10.2
54	9.4	9.4
55	4.7	4.7
56	6.1	6.1
57	9.3	9.3
58	7.9	7.9
59	0	0
60	11.0	11.0
61	0	0
62	10.3	10.3
63	1.3	1.3
64	1.0	1.0
Q6001		
E	0	0
C	0	0
B	3.0	3.0
Q6002		
D	10.4	10.4
S	0	0
G	0	0
Q6003		
D	0	0
S	4.1	4.1
G	0	3.1
Q6004		
E	11.0	11.0
C	3.0	3.0
B	10.4	10.4
Q6101		
D	0	0
S	0	0
G	0	0
Q6102		
D	0	0
S	0	0
G	3.0	3.0
Q6201		
D	3.0	3.0
S	11.0	11.0
G	7.9	7.9
Q6202		
E	0	3.0
C	2.5	2.5
B	2.3	2.3
Q6203		
1(D)	1.8	1.8
2(D)	1.8	1.8
3(G)	9.3	9.3
4(S)	11.0	11.0
5(D)	1.8	1.8
6(D)	1.8	1.8
Q6204		
D	4.8	4.8
S	11.0	11.0
G	6.2	6.2
Q6205		
E	4.8	4.8
C	0	0
B	4.8	4.8
Q6206		
E	0	0
C	4.8	4.8
B	0	0
Q6207		
E	0	0
C	4.8	4.8
B	0	0
Q6208		
1(D)	1.7	1.7
2(D)	1.7	1.7
3(G)	9.4	9.4
4(S)	11.0	11.0
5(D)	1.7	1.7
6(D)	1.7	1.7
Q6210		
1(D)	0.9	0.9
2(D)	0.9	0.9
3(G)	10.2	0
4(S)	11.0	11.0
5(D)	0.9	0.9
6(D)	0.9	0
Q6211		
D	0	0
S	11.0	11.0
G	4.7	4.7
Q6212		
1(E)	4.3	4.3
2(B)	4.8	4.8
3(C)	15.0	15.0
4(E)	0	4.3
5(B)	5.0	4.9
6(C)	14.4	14.4
Q6213		
E	15.0	15.0
C	11.9	11.9
B	14.4	14.4
Q6214		
E	0	0
C	15.0	15.0
B	0	-1.1
Q6215		
1(E)	-6.0	-6.1
2(B)	-6.5	-6.6
3(C)	-15.3	-15.3
4(E)	-6.1	-6.1
5(B)	-6.6	-6.7
6(C)	-13.3	-15.2
Q6216		
E	-13.9	-15.3
C	-6.6	-6.7
B	-13.9	-15.2
Q6217		
1(E)	0	0
2(B)	0	0
3(C)	0	0
4(E)	0	11.0
5(B)	11.0	11.0
6(C)	11.0	11.0
Q6701		
1(D)	0	0
2(D)	0	0
3(G)	11.0	11.0
4(S)	11.0	11.0
5(D)	0	0
6(D)	0	0

<JACK>

MODE PIN NO.	REC	PLAY
IC501		
1	1.9	1.9
2	1.9	1.9
3	1.9	1.9
4	0	0
5	1.9	1.9
6	1.9	1.9
7	1.4	1.4
8	4.8	4.8
IC502		
1	0	0
2	0	0
3	4.8	4.8
4	4.8	4.8
Q501		
E	0	0
C	4.2	4.2
B	-	-

<B/W VF>

MODE PIN NO.	REC	PLAY
IC7101	-	-
Q7101	-	-

<MONITOR>

MODE PIN NO.	EE
IC7601	
1	0
2	7.1
3	2.4
4	2.4
5	2.4
6	2.4
7	2.4
8	2.4
9	2.4
10	0
11	0
12	5.9
13	0
14	6.0
15	6.0
16	6.0
17	6.0
18	6.0
19	6.0
20	1.7
21	1.4
22	0
23	1.2
24	0.4
25	0
26	1.1
27	0.9
28	1.3
29	2.9
30	1.1
31	0
32	0.5
33	0
34	0
35	0
36	3.0
37	0
38	0
39	3.0
40	0.9
41	1.5
42	2.9
43	2.9
44	0
45	2.9
46	2.7
47	2.4
48	0
IC7602	
1	11.8
2	0.5
3	0.5
4	0
5	4.8
6	4.8
7	7.1
8	11.9
IC7603	
1	0.7
2	3.1
3	0
4	3.0
5	3.0
6	0.7
7	0
8	0
IC7604	
1	1.0
2	3.0
3	2.3
4	1.0
5	3.1
6	0
7	0
8	0
9	1.0
10	0
11	0
12	1.0
13	0
14	3.0
Q7601	
E	-9.1
C	0
B	-8.6
Q7602	
E	0
C	0
B	-8.5
Q7603	
E	-8.6
C	0
B	-8.2
Q7604	
E	-8.6
C	-14.7
B	-9.1
Q7605	
E	2.9
C	2.9
B	0
Q7606	
E	0
C	0
B	2.9
Q7607	
1(E)	0
2(B)	6.3
3(C)	0
4(E)	6.3
5(B)	5.7
6(C)	11.9
Q7608	
E	0
C	0
B	3.1
Q7609	
E	0
C	4.7
B	0
Q7610	
E	4.8
C	1.4
B	4.7

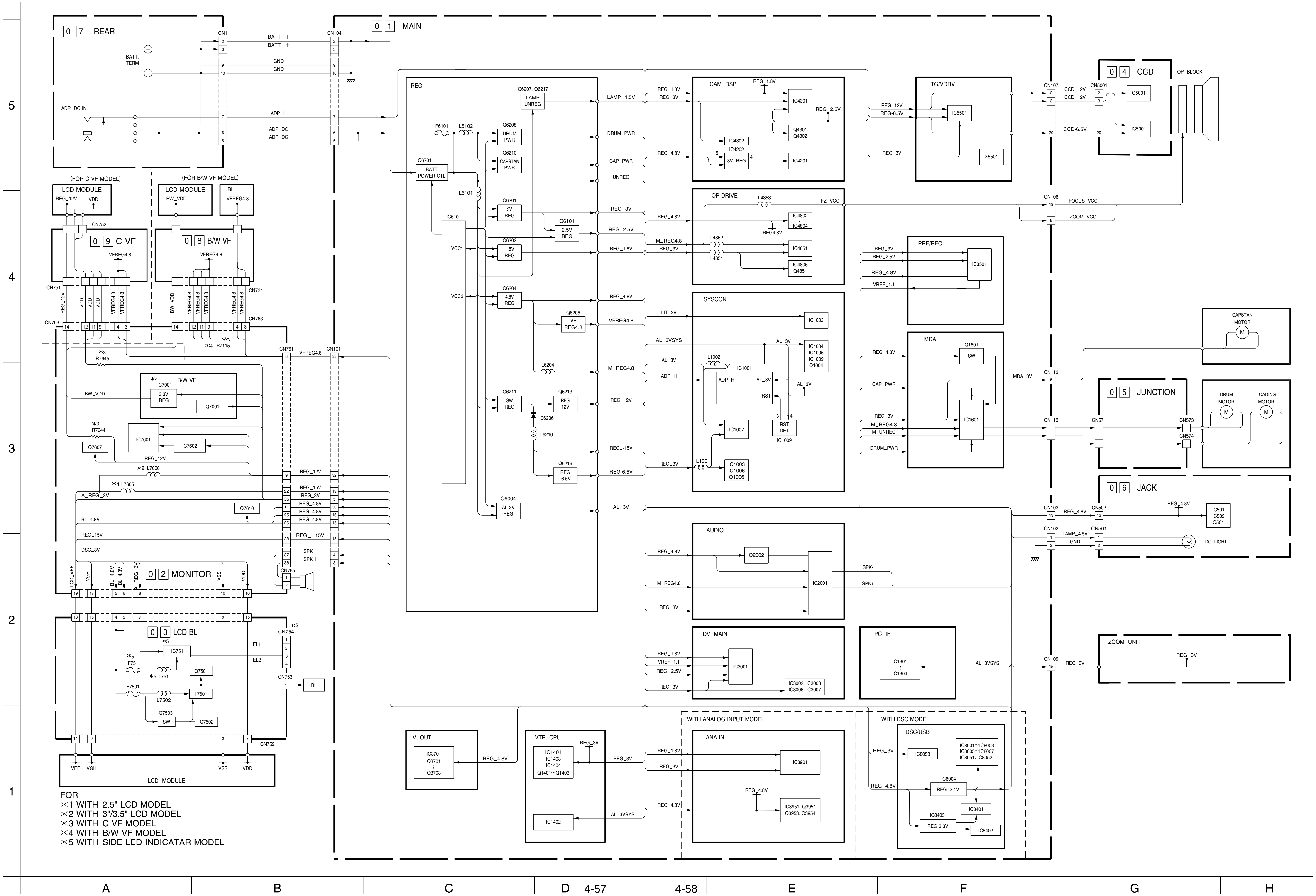
<LCD BL>

MODE PIN NO.	EE
IC751	
1	0
2	4.5
3	0
4	0
5	3.1
6	0
7	0
8	0
9	0
10	0
Q7501	
E	0
C	4.5
B	0.4
Q7502	
E	0
C	4.5
B	0.4
Q7503	
E	4.6
C	0
B	0
Q7504	
E	0
C	0
B	0.7

<CCD>

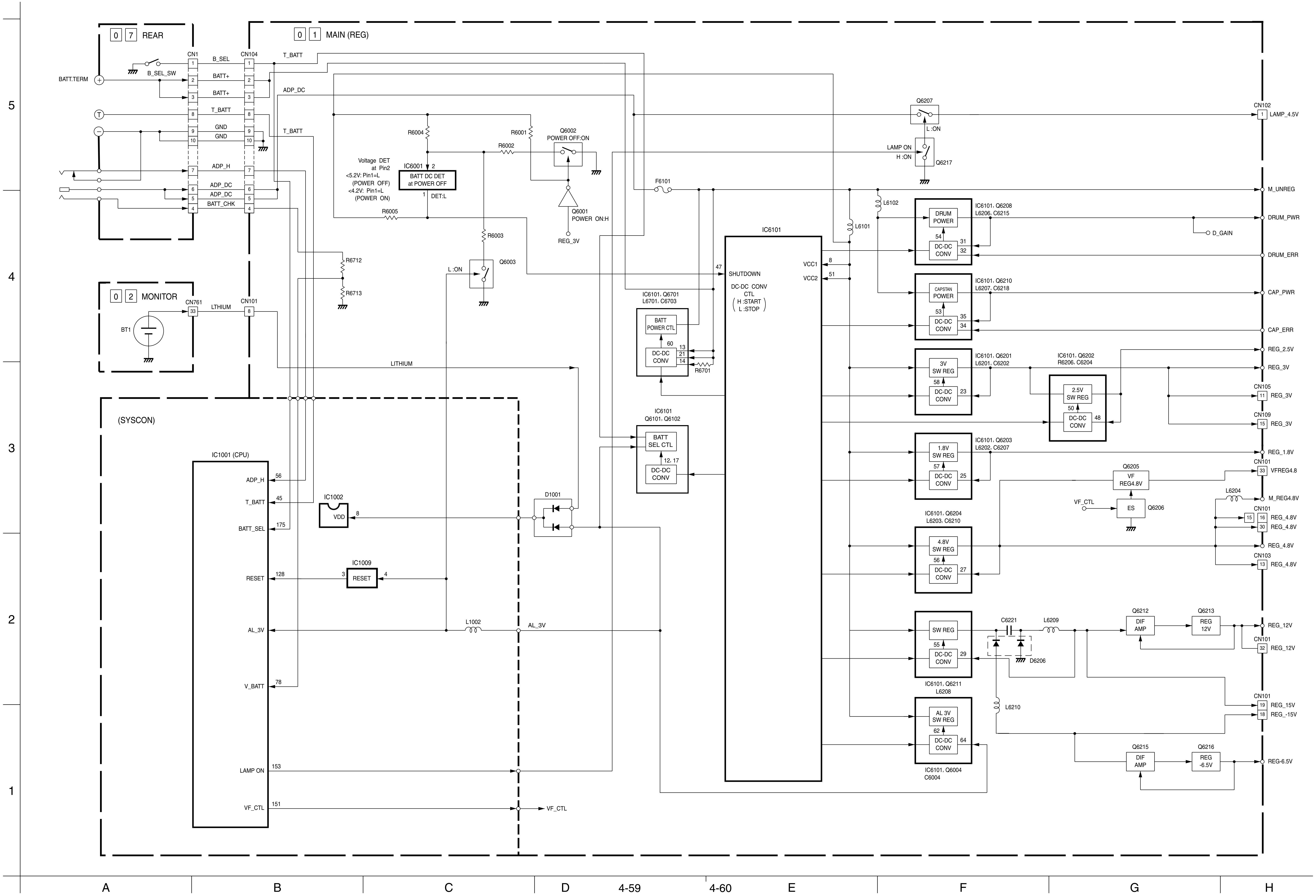
MODE PIN NO.	EE
Q5001	
E	0
C	8.1
B	0

4.27 POWER SYSTEM BLOCK DIAGRAM

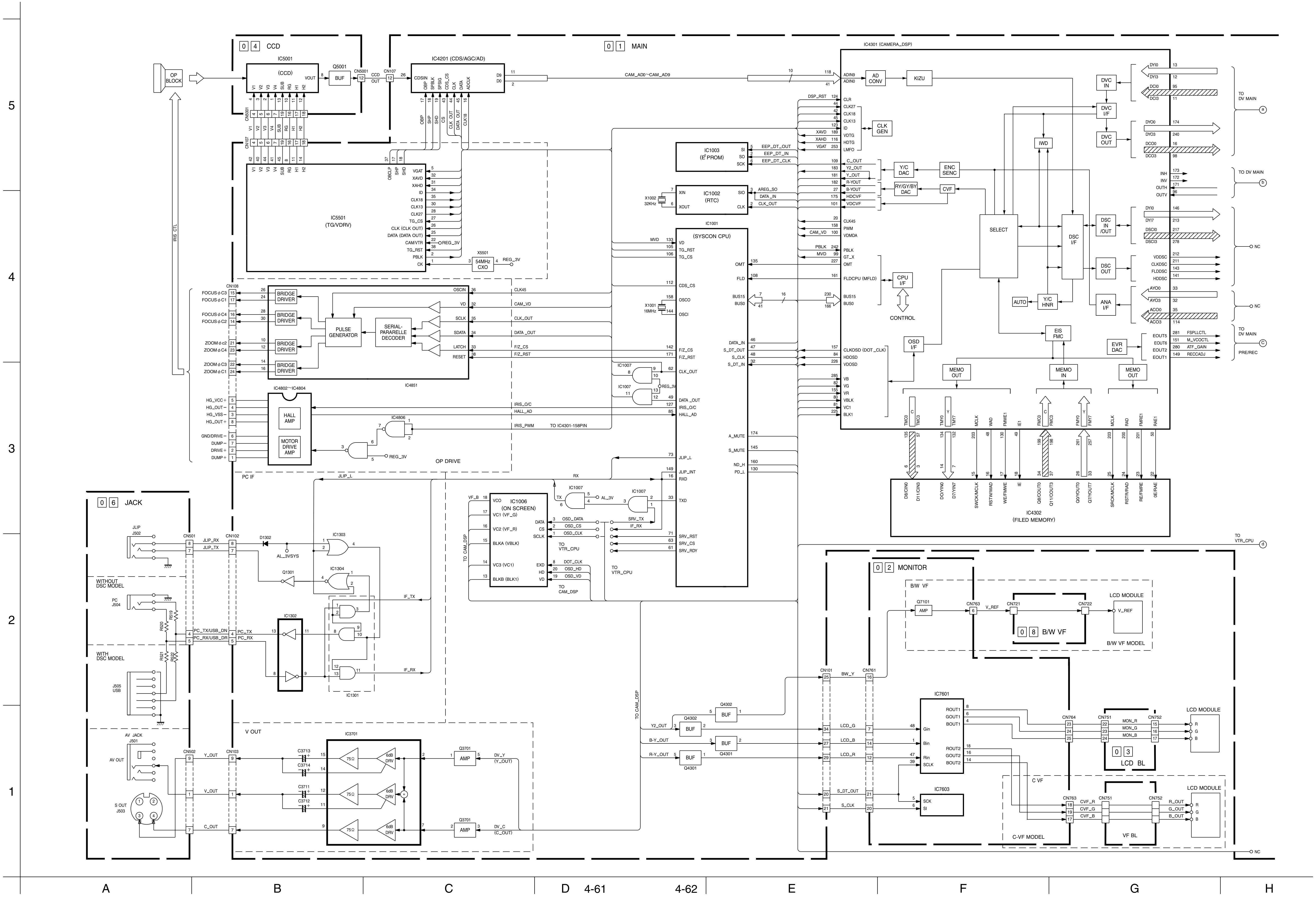

07 REAR
BATT. TERM
ADP_DC IN
CN1
CN104
BATT_+
GND
ADP_H
ADP_DC
01 MAIN
REG
Q6207, Q6217 LAMP UNREG
F6101
L6102
Q6208 DRUM PWR
Q6210 CAPSTAN PWR
Q6701 BATT POWER CTL
L6101
Q6201 3V REG
Q6101 2.5V REG
Q6203 1.8V REG
Q6204 4.8V REG
Q6205 VF REG4.8
IC6101
VCC1
VCC2
L6204
Q6211 SW REG
Q6213 REG 12V
D6206
L6210
Q6216 REG -6.5V
Q6004 AL 3V REG
LAMP_4.5V
DRUM_PWR
CAP_PWR
UNREG
REG_3V
REG_2.5V
REG_1.8V
REG_4.8V
VFREG4.8
M_REG4.8
REG_12V
REG_-15V
REG-6.5V
AL_3V
CAM DSP
IC4301
IC4302
IC4202 3V REG
Q4301 Q4302
IC4201
OP DRIVE
L4853
IC4802 ~ IC4804
FZ_VCC
L4852
L4851
IC4851
IC4806 Q4851
SYSCON
LIT_3V
IC1002
AL_3VSYS
L1002
IC1001
ADP_H
RST
IC1004 IC1005 IC1009 Q1004
IC1007
RST DET IC1009
L1001
IC1003 IC1006 Q1006
TG/VDRV
IC5501
X5501
REG_12V
REG-6.5V
PRE/REC
IC3501
VREF_1.1
MDA
Q1601 SW
IC1601
CAP_PWR
M_UNREG
MDA_3V
04 CCD
CN107
CN5001
CCD_12V
CCD-6.5V
Q5001
IC5001
OP BLOCK
CN108
FOCUS VCC
ZOOM VCC
CAPSTAN MOTOR
05 JUNCTION
CN112
CN113
CN571
CN573
CN574
DRUM MOTOR
LOADING MOTOR
06 JACK
CN103
CN502
IC501 IC502 Q501
CN102
CN501
LAMP_4.5V
DC LIGHT
AUDIO
Q2002
IC2001
SPK-
SPK+
DV MAIN
IC3001
IC3002, IC3003 IC3006, IC3007
PC IF
IC1301 ~ IC1304
ZOOM UNIT
CN109
V OUT
IC3701 Q3701 ~ Q3703
VTR CPU
IC1401 IC1403 IC1404 Q1401~Q1403
IC1402
WITH ANALOG INPUT MODEL
ANA IN
IC3901
IC3951, Q3951 Q3953, Q3954
WITH DSC MODEL
DSC/USB
IC8053
IC8001~IC8003 IC8005~IC8007 IC8051, IC8052
IC8004 REG 3.1V
IC8401
IC8403 REG 3.3V
IC8402
(FOR C VF MODEL)
(FOR B/W VF MODEL)
LCD MODULE
BL
CN752
09 C VF
08 B/W VF
CN751
CN721
CN763
*4 R7115
*3 R7645
CN761
CN101
*4 B/W VF IC7001 3.3V REG
Q7001
BW_VDD
*3 R7644
IC7601
IC7602
Q7607
*2 L7606
*1 L7605
A_REG_3V
Q7610
BL_4.8V
REG_15V
DSC_3V
CN765
02 MONITOR
03 LCD BL
*5 CN754
*5 IC751
EL1
EL2
*5 F751
*5 L751
Q7501
F7501
L7502
T7501
Q7503 SW
Q7502
CN753
VEE VGH VSS VDD
LCD MODULE
A B C D E F G H
1 2 3 4 5

FOR
⁎1 WITH 2.5" LCD MODEL
⁎2 WITH 3"/3.5" LCD MODEL
⁎3 WITH C VF MODEL
⁎4 WITH B/W VF MODEL
⁎5 WITH SIDE LED INDICATAR MODEL

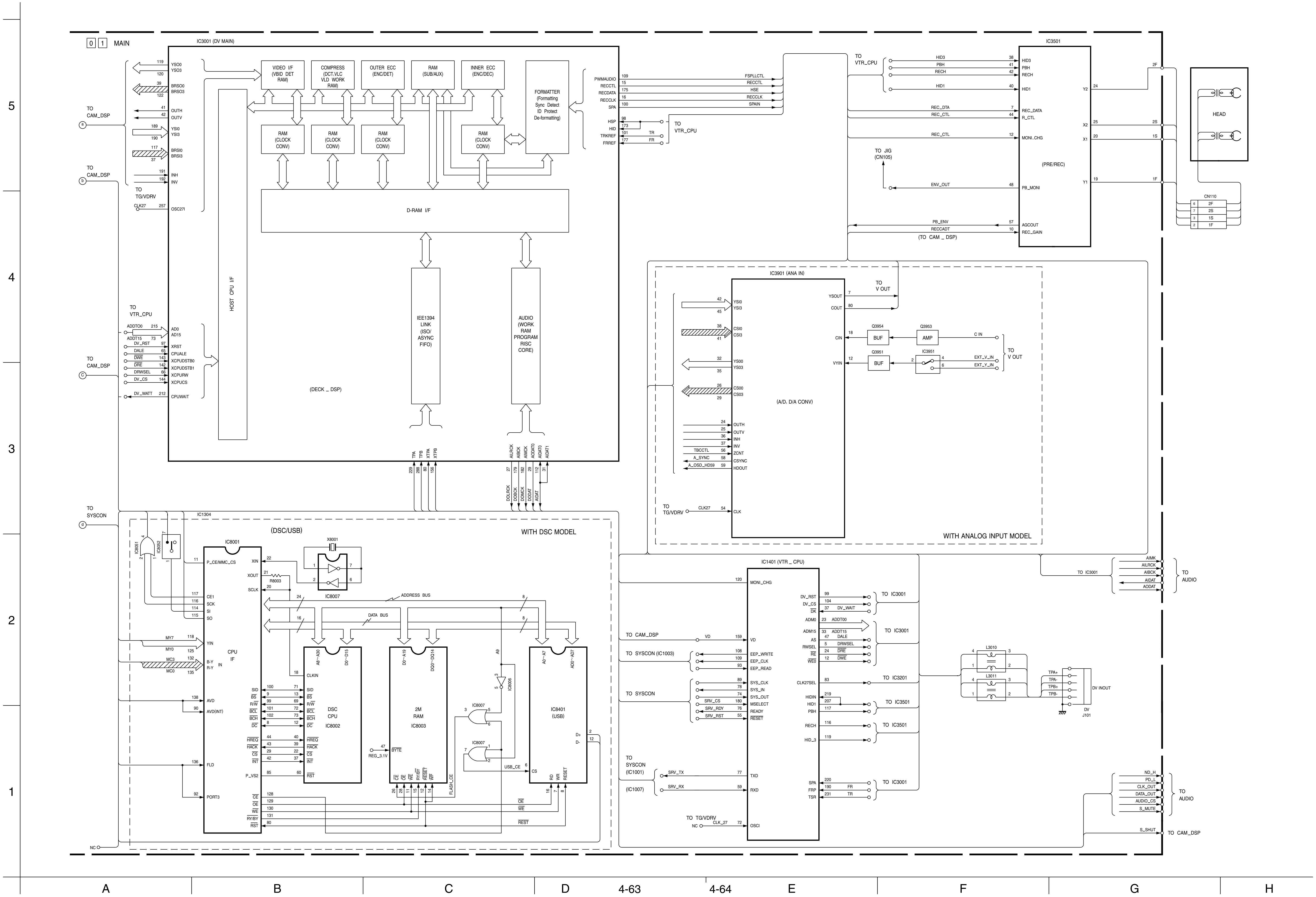
4.28 REGULATOR SYSTEM BLOCK DIAGRAM


0 7 REAR
0 1 MAIN (REG)
0 2 MONITOR
(SYSCON)
BATT.TERM
CN1
CN104
CN761
CN101
B_SEL
B_SEL_SW
BATT+
T_BATT
GND
ADP_H
ADP_DC
BATT_CHK
BT1
LTHIUM
LITHIUM
Voltage DET at Pin2
<5.2V: Pin1=L (POWER OFF)
<4.2V: Pin1=L (POWER ON)
IC6001
BATT DC DET at POWER OFF
DET:L
R6004
R6005
R6001
R6002
R6003
Q6002 POWER OFF:ON
Q6001 POWER ON:H
REG_3V
Q6003
L :ON
R6712
R6713
F6101
L6101
L6102
IC6101
SHUTDOWN
DC-DC CONV CTL (H :START L :STOP)
VCC1
VCC2
IC6101, Q6701 L6701, C6703
BATT POWER CTL
DC-DC CONV
R6701
IC6101 Q6101, Q6102
BATT SEL CTL
Q6207
L :ON
LAMP ON H :ON
Q6217
IC6101, Q6208 L6206, C6215
DRUM POWER
IC6101, Q6210 L6207, C6218
CAPSTAN POWER
IC6101, Q6201 L6201, C6202
3V SW REG
IC6101, Q6202 R6206, C6204
2.5V SW REG
IC6101, Q6203 L6202, C6207
1.8V SW REG
IC6101, Q6204 L6203, C6210
4.8V SW REG
SW REG
IC6101, Q6211 L6208
AL 3V SW REG
IC6101, Q6004 C6004
C6221
L6209
D6206
L6210
Q6205 VF REG4.8V
VF_CTL
ES Q6206
L6204
Q6212 DIF AMP
Q6213 REG 12V
Q6215 DIF AMP
Q6216 REG -6.5V
D_GAIN
CN102
LAMP_4.5V
M_UNREG
DRUM_PWR
DRUM_ERR
CAP_PWR
CAP_ERR
REG_2.5V
REG_3V
CN105
CN109
REG_1.8V
VFREG4.8
M_REG4.8V
REG_4.8V
CN103
REG_12V
REG_15V
REG_-15V
REG-6.5V
IC1001 (CPU)
ADP_H
T_BATT
BATT_SEL
RESET
AL_3V
V_BATT
LAMP ON
VF_CTL
IC1002 VDD
IC1009 RESET
D1001
L1002
AL_3V
VF_CTL
5
4
3
2
1
A
B
C
D
E
F
G
H

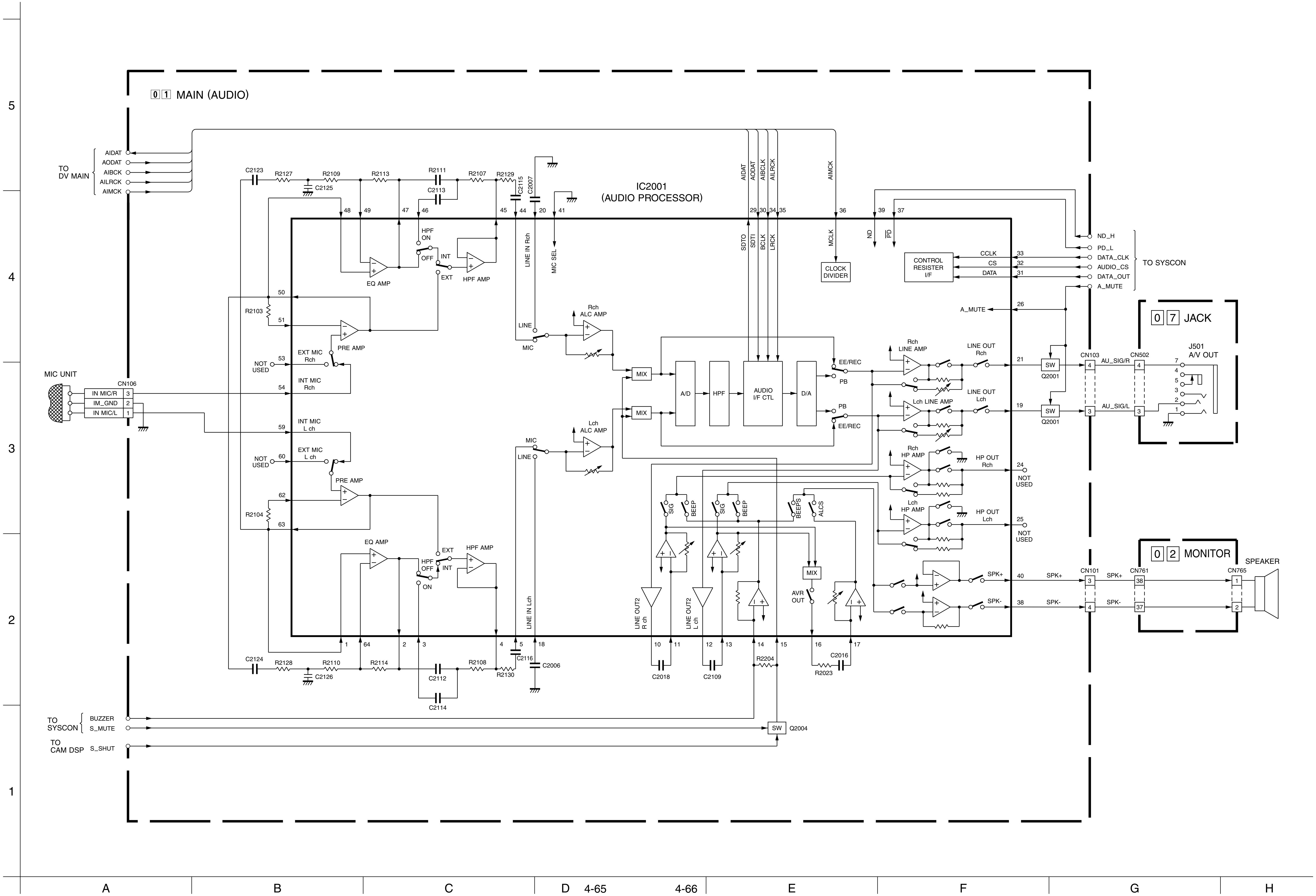
4.29 VIDEO SYSTEM BLOCK DIAGRAM



0 4 CCD
0 1 MAIN
0 6 JACK
0 2 MONITOR
0 8 B/W VF
0 3 LCD BL
OP BLOCK
IC5001 (CCD)
Q5001 BUF
CN5001
CN107
IC4201 (CDS/AGC/AD)
CAM_AD0~CAM_AD9
IC4301 (CAMERA_DSP)
AD CONV
KIZU
CLK GEN
Y/C DAC
RY/GY/BY DAC
ENC SENC
CVF
SELECT
IWD
DVC IN
DVC I/F
DVC OUT
DSC I/F
DSC IN /OUT
DSC OUT
ANA I/F
Y/C HNR
AUTO
EIS FMC
EVR DAC
CPU I/F
OSD I/F
CONTROL
MEMO OUT
MEMO IN
TO DV MAIN
TO DV MAIN
NC
NC
PRE/REC
TO VTR_CPU
IC1003 (E²PROM)
EEP_DT_OUT
EEP_DT_IN
EEP_DT_CLK
IC1002 (RTC)
X1002 32KHz
IC1001 (SYSCON CPU)
X1001 16MHz
IC5501 (TG/VDRV)
X5501 54MHz CXO
REG_3V
IC4851
BRIDGE DRIVER
PULSE GENERATOR
SERIAL-PARARELLE DECODER
FOCUS ϕ C3
FOCUS ϕ C1
FOCUS ϕ C4
FOCUS ϕ C2
ZOOM ϕ C2
ZOOM ϕ C4
ZOOM ϕ C3
ZOOM ϕ C1
IC4802~IC4804
HALL AMP
MOTOR DRIVE AMP
IC4806
OP DRIVE
IRIS_CTL
IRIS_PWM TO IC4301-158PIN
IC1007
IC1006 (ON SCREEN)
TO CAM_DSP
TO VTR_CPU
IC4302 (FILED MEMORY)
PC IF
JLIP J502
PC J504
WITHOUT DSC MODEL
WITH DSC MODEL
J505 USB
AV JACK J501
AV OUT
S OUT J503
IC1303
IC1304
IC1302
IC1301
Q1301
D1302
AL_3VSYS
IF_TX
IF_RX
V OUT
IC3701
75Ω
6dB DRV
Q3701 AMP
DV_Y (Y_OUT)
DV_C (C_OUT)
Y_OUT
V_OUT
C_OUT
Q4302 BUF
Q4301 BUF
TO CAM_DSP
Y2_OUT
B-Y_OUT
R-Y_OUT
B/W VF
Q7101 AMP
LCD MODULE
B/W VF MODEL
IC7601
IC7603
LCD_G
LCD_B
LCD_R
MON_R
MON_G
MON_B
C VF
C-VF MODEL
VF BL
CVF_R
CVF_G
CVF_B
1
2
3
4
5
A
B
C
D
E
F
G
H


0 1 MAIN
IC3001 (DV MAIN)
VIDEO I/F (VBID DET RAM)
COMPRESS (DCT.VLC VLD WORK RAM)
OUTER ECC (ENC/DET)
RAM (SUB/AUX)
INNER ECC (ENC/DEC)
FORMATTER (Formatting Sync Detect ID Protect De-formatting)
RAM (CLOCK CONV)
D-RAM I/F
HOST CPU I/F
IEE1394 LINK (ISO/ ASYNC FIFO)
AUDIO (WORK RAM PROGRAM RISC CORE)
(DECK _ DSP)
TO CAM_DSP
TO TG/VDRV
TO VTR_CPU
TO SYSCON
YSO0 YSO3 BRSO0 BRSO3 OUTH OUTV YSI0 YSI3 BRSI0 BRSI3 INH INV OSC27I
AD0 AD15 XRST CPUALE XCPUDSTB0 XCPUDSTB1 XCPURW XCPUCS CPUWAIT
ADDT00 ADDT15 DV_RST DALE DWE DRE DRWSEL DV_CS DV_WAIT CLK27
PWMAUDIO RECCTL RECDATA RECCLK SPA HSP HID TRKREF FRREF
FSPLLCTL RECCTL HSE RECCLK SPAIN TR FR
TPA TPB XTPA XTPB AILRCK AIBCK AIMCK AODAT0 AODAT1
DOLRCK DOBCK DOMCK DODAT AIDAT
IC3501
HID3 PBH RECH HID1 REC_DATA REC_CTL R_CTL MONI_CHG PB_MONI ENV_OUT AGCOUT REC_GAIN PB_ENV RECCADT
(PRE/REC)
Y2 X2 X1 Y1 2F 2S 1S 1F
TO JIG (CN105)
(TO CAM _ DSP)
HEAD
CN110
IC3901 (ANA IN)
(A/D. D/A CONV)
YSI0 YSI3 CSI0 CSI3 YSO0 YSO3 CSO0 CSO3 OUTH OUTV INH INV ZCNT CSYNC HDOUT CLK
TBCCTL A_SYNC A_OSD_HD59
YSOUT COUT CIN VYIN
TO V OUT
Q3954 BUF Q3953 AMP C IN
Q3951 BUF IC3951 EXT_V_IN EXT_Y_IN
WITH ANALOG INPUT MODEL
IC1304
(DSC/USB)
WITH DSC MODEL
IC8001 CPU IF
P_CE/MMC_CS XIN XOUT SCLK CE1 SCK SI SO YIN B-Y R-Y IN AVD AVD(INT) FLD PORT3 P_VS2
MY7 MY0 MC3 MC0
IC8051 IC8052
X8001 IC8007 R8003
ADDRESS BUS DATA BUS
DSC CPU IC8002
A8~A30 D0~D15 CLKIN SID BS R/W BCL BCH DC HREQ HACK CS INT RST
2M RAM IC8003
D0~A19 DQ0~DQ14 BYTE CE OE WE RY/BY RESET WP
REG_3.1V
IC8606 FLASH_CE USB_CE
IC8401 (USB)
A0~A7 AD0~AD7 D+ D- RD WR RESET
CE OE WE RY/BY RST REST
IC1401 (VTR _ CPU)
MONI_CHG VD EEP_WRITE EEP_CLK EEP_READ SYS_CLK SYS_IN SYS_OUT MSELECT READY RESET TXD RXD OSCI
DV_RST DV_CS DK ADM0 ADM15 AS RWSEL RE WE0 CLK27SEL HIDIN HID1 PBH RECH HID_3 SPA FRP TSR
TO IC3001 TO IC3201 TO IC3501
TO CAM_DSP TO SYSCON (IC1003) TO SYSCON TO SYSCON (IC1001) (IC1007) TO TG/VDRV
SRV_CS SRV_RDY SRV_RST SRV_TX SRV_RX CLK_27 NC
TO IC3001 AIMK AILRCK AIBCK AIDAT AODAT TO AUDIO
L3010 L3011 TPA+ TPA- TPB+ TPB- DV INOUT DV J101
ND_H PD_L CLK_OUT DATA_OUT AUDIO_CS S_MUTE TO AUDIO
S_SHUT TO CAM_DSP
1 2 3 4 5
A B C D E F G H

4.30 AUDIO SYSTEM BLOCK DIAGRAM



01 MAIN (AUDIO)
IC2001
(AUDIO PROCESSOR)
TO DV MAIN
AIDAT
AODAT
AIBCK
AILRCK
AIMCK
MIC UNIT
CN106
IN MIC/R 3
IM_GND 2
IN MIC/L 1
C2123
R2127
R2109
R2113
R2111
R2107
R2129
C2125
C2113
C2115
C2007
EQ AMP
HPF ON
OFF
INT
EXT
HPF AMP
R2103
PRE AMP
EXT MIC Rch
NOT USED
INT MIC Rch
INT MIC L ch
EXT MIC L ch
R2104
LINE IN Rch
MIC SEL
LINE
MIC
Rch ALC AMP
Lch ALC AMP
MIX
A/D
HPF
AUDIO I/F CTL
D/A
SDTO
SDTI
BCLK
LRCK
MCLK
CLOCK DIVIDER
ND
PD
CONTROL RESISTER I/F
CCLK
CS
DATA
A_MUTE
EE/REC
PB
Rch LINE AMP
Lch LINE AMP
LINE OUT Rch
LINE OUT Lch
Rch HP AMP
Lch HP AMP
HP OUT Rch
HP OUT Lch
NOT USED
SIG
BEEP
BEEPS
ALCS
AVR OUT
LINE OUT2 R ch
LINE OUT2 L ch
SPK+
SPK-
SW
Q2001
ND_H
PD_L
DATA_CLK
AUDIO_CS
DATA_OUT
A_MUTE
TO SYSCON
07 JACK
J501 A/V OUT
CN103
CN502
AU_SIG/R
AU_SIG/L
02 MONITOR
CN101
CN761
CN765
SPEAKER
C2124
R2128
R2110
R2114
R2108
R2130
C2126
C2112
C2114
C2116
C2006
LINE IN Lch
C2018
C2109
R2204
C2016
R2023
TO SYSCON
BUZZER
S_MUTE
TO CAM DSP
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Q2004
1 2 3 4 5
A B C D E F G H

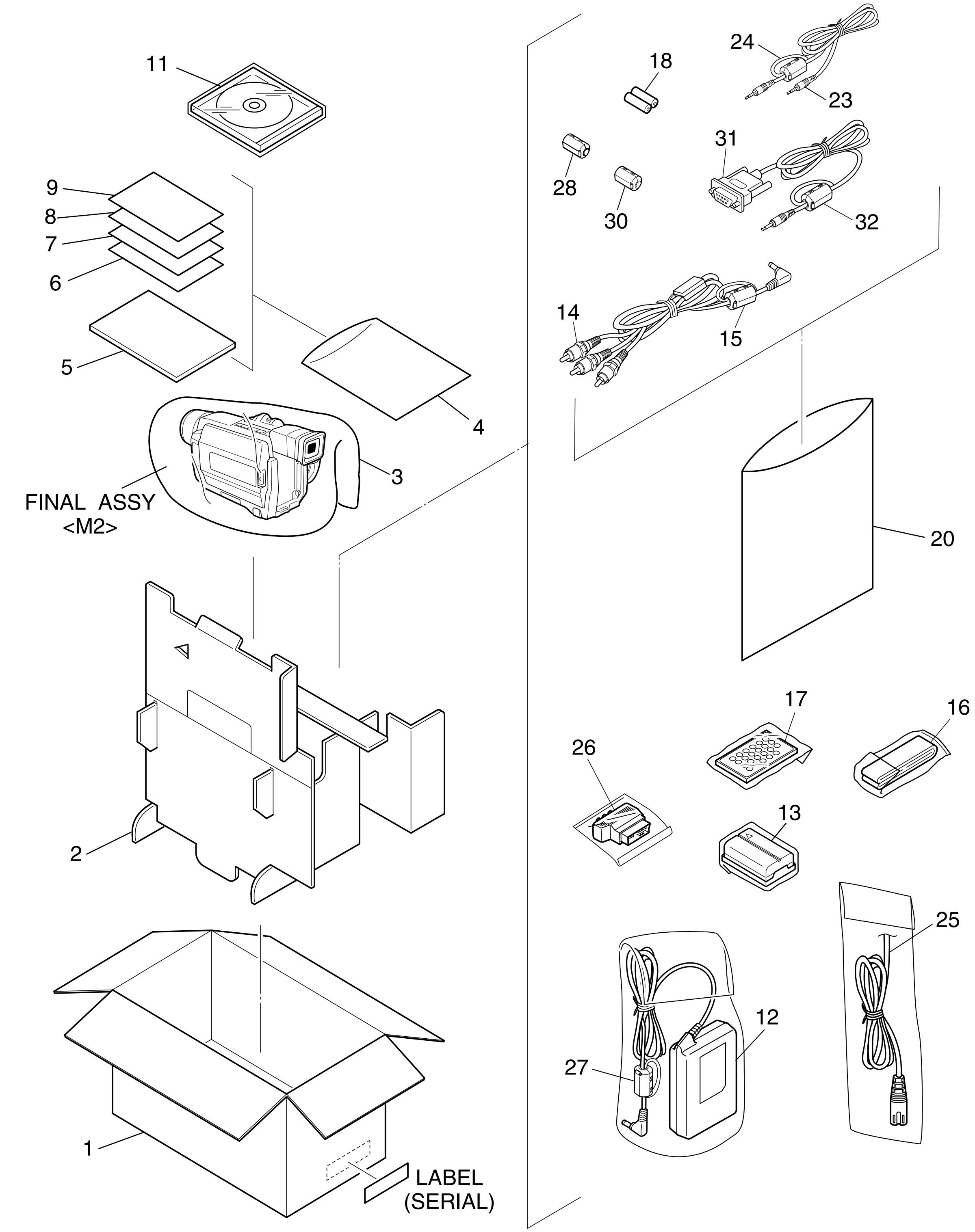
SECTION 5
PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

5.1 PACKING AND ACCESSORY ASSEMBLY <M1>

The instruction manual to be provided with this product will differ according to the destination.



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PACKING AND ACCESSORY ASSEMBLY <M1>

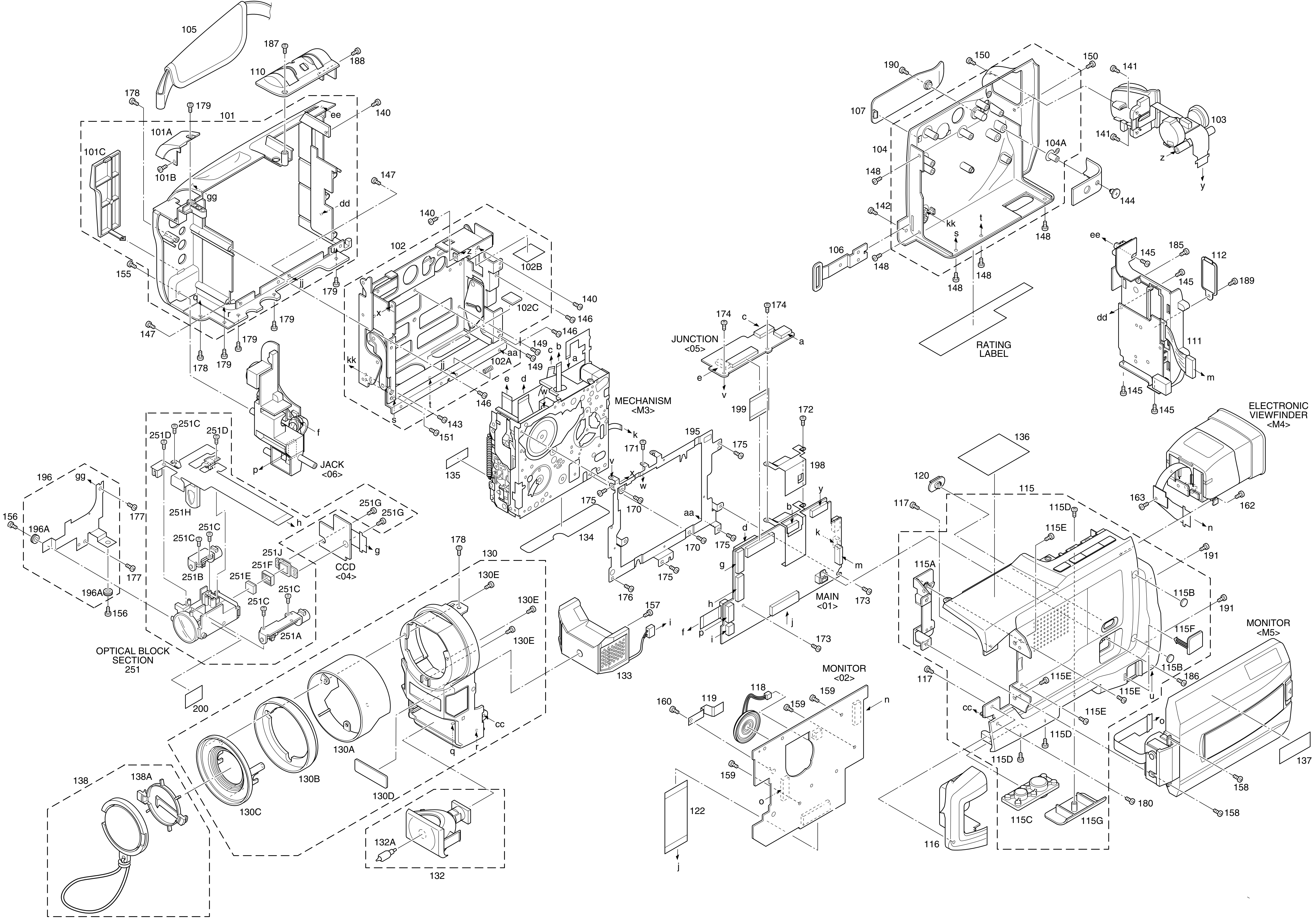
# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	1	LY30023-008A	POLY BAG
	2	LY32095-002A	PACKING CASE,C
		LY32095-003A	PACKING CASE,A,B
	3	LY32096-001A	CUSHION
	4	QPA02003006	POLY BAG,A,C
		YQM30061-3	POLY BAG,B
⚠	5	LYT0728-001A	INST.BOOK(EN),B
⚠		LYT0727-002B	INST.BOOK(GE),A,C
⚠		LYT0727-003B	INST.BOOK(FR),A,C
⚠		LYT0727-004A	INST.BOOK(DU),A,C
⚠		LYT0727-005B	INST.BOOK(SP),A,C
⚠		LYT0727-006A	INST.BOOK(IT),A,C
⚠		LYT0727-007A	INST.BOOK(DA),A,C
⚠		LYT0727-008A	INST.BOOK(FI),A,C
⚠		LYT0727-009A	INST.BOOK(SW),A,C
⚠		LYT0727-010A	INST.BOOK(NO),A,C
⚠		LYT0727-011A	INST.BOOK(RU),A,C
⚠		LYT0727-012A	INST.BOOK(CZ),A,C
⚠		LYT0727-013A	INST.BOOK(PO),A,C
⚠		LYT0727-014A	INST.BOOK(HU),A,C
⚠	6	LYT0737-001A	INST.BOOK(SOFT.5LANG),C
⚠		LYT0737-002A	INST.BOOK(SOFT.5LANG),C
⚠		LYT0737-003A	INST.BOOK(SOFT.RU),C
	7	LYT0378-003A	SHEET(AGREMENT),C
	8	LYT0194-001B	Q.CARD(JUK),B
	9	BT-54008-2	GUARANTY CARD,B
		BT-54013-2	WARRANTY CARD,A,C
	11	LY32210-002A	CD ROM,C
⚠	12	LY20688-013A	AC ADAPTER,AP-V10EG
⚠	13	LY31587-001A	BATTERY PACK,BN-V408U
	14	QAM0212-001	CABLE ASSY,AUDIO/VIDEO CABLE
	15	QQR0918-002	CORE FILTER
	16	LY20186-001A	SHOULDER STRAP
	17	LY20750-001A	REMOTE CONTROL UNIT,RM-V717U
	18	–	BATTERY,AAA(R03),X2
	20	QPA01703005	POLY BAG
	23	QAM0214-001	RM CABLE,C
		PEAC0428-150	CABLE ASSY,A,B
	24	QQR0491-002	CORE FILTER
⚠	25	QMPL120-190-JR	POWER CORD,A,C
⚠		QMPP110-190-JR	POWER CORD,B
	26	QAM0302-001	ADAPTOR PLUG
	27	QQR0490-002	CORE FILTER
	28	QQR0918-002	CORE FILTER,A,B
	30	QQR0491-002	CORE FILTER
	31	QAM0084-001	PC CABLE,C
	32	QQR0491-002	CORE FILTER,C

- **INSTRUCTIONS**

EN .... ENGLISH
GE ...... GERMAN
FR .... FRENCH
DU ...... DUTCH
SP .... SPANISH
IT .... ITALIAN
DA .... DANISH
FI .... FINNISH
SW ...... SWEDISH
NO ...... NORWEGIAN
RU ...... RUSSIAN
CZ .... CZECH
PO ...... POLISH
HU ...... HUNGARIAN

MODEL	MARK
GR-DVL150EG	A
GR-DVL150EK	B
GR-DVL450EG	C

5.2 FINAL ASSEMBLY <M2>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MONITOR
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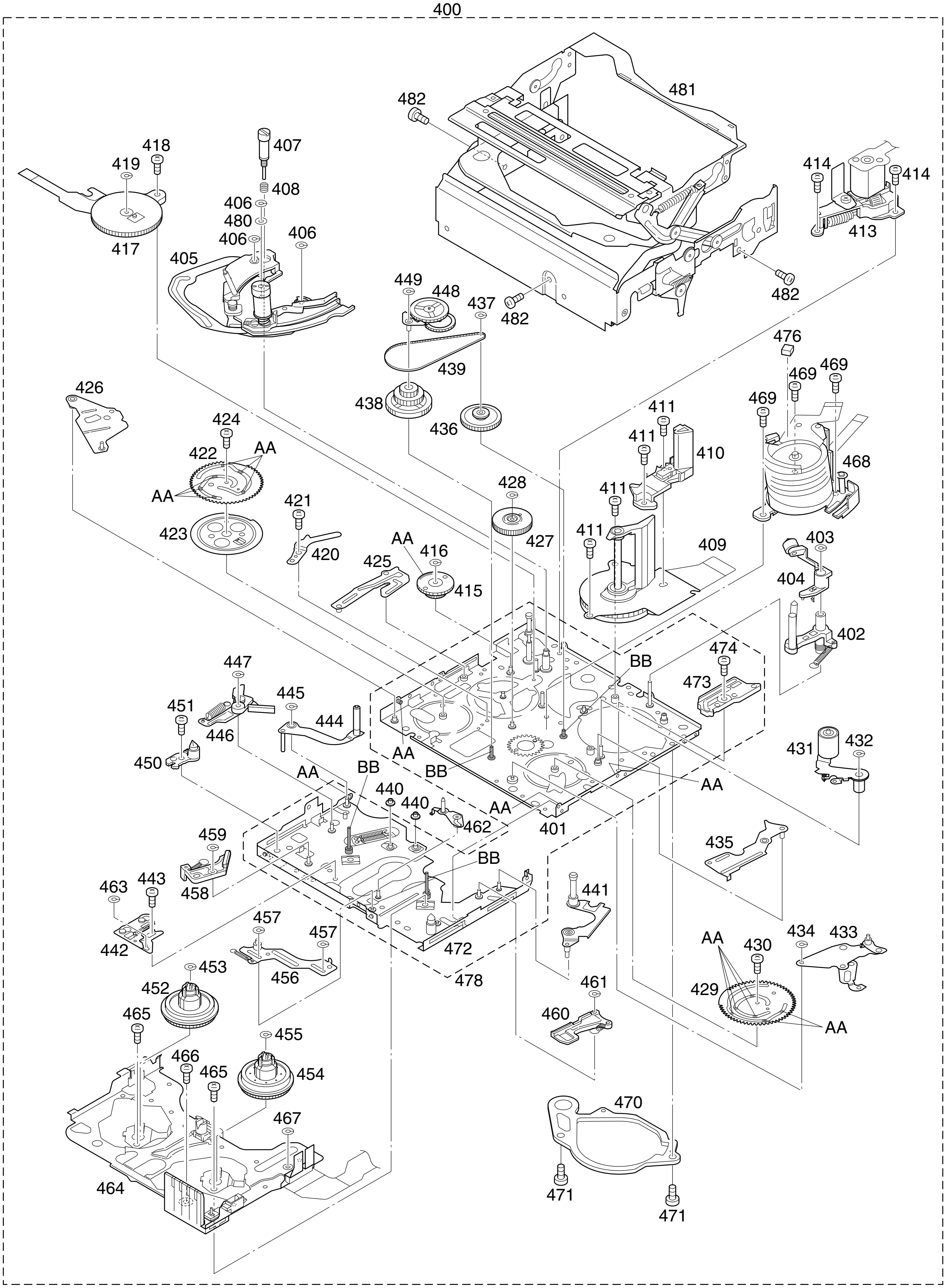
FINAL ASSEMBLY <M2>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
101	LY20706-001C	LOWER CASE ASSY
101A	LY32098-001A	WINDOW(IR)
101B	LY30018-063A	SPECIAL SCREW
101C	LY32099-001C	COVER(JACK)
102	LY20697-001A	ARM ASSY,A
	LY20697-001B	ARM ASSY,B,C
102A	LY30001-023A	TENSION SPRING
102B	LY30029-0C7A	SPACER(A)
102C	LY30029-0E9A	SPACER(A)
103	LY20693-001A	ZOOM UNIT
104	LY20704-001A	CASSETTE COVER ASSY
104A	LY40592-001A	CAP(GRIP BELT)
105	LY20575-004B	GRIP BELT
106	LY42891-001A	HOOK(GRIP)
107	LY32092-013A	COVER(AJUST)
110	LY32093-001A	COVER(ZOOM)ASSY
111	LY20725-001A	REAR UNIT
112	LY41691-001A	COVER(JIG)
115	LY20707-003B	UPPER CASE(2.5)ASSY,A,B
	LY20717-003C	UPPER CASE3/3.5ASSY,C
115A	LY32101-001A	BRACKET
115B	LY40664-001A	SPACER,X2
115C	LY31019-001A	BASE
115D	LY30018-084A	SPECIAL SCREW,X3
115E	LY30018-0A8A	SPECIAL SCREW,X4
115F	LY42866-001A	CAP(DC JACK)
115G	LY32110-001A	COVER
116	LY32106-001A	COVER(HINGE)
117	LY30018-084A	SPECIAL SCREW,X2
118	QAS0048-001	SPEAKER
119	LY42167-001A	PLATE(SPK)
120	LY42919-001A	KNOB(SLIDE)
122	QUQ105-4007AA	FFC WIRE
⚠ 130	LY20711-003A	FRONT COVER ASSY
130A	LY32111-002A	HOOD
130B	LY32112-001A	RING
130C	LY32113-001A	HOOD(SCREW)
130D	LY42953-001A	MARK
130E	LY30018-052A	SPECIAL SCREW,X3
132	LY31617-002A	DC LIGHT ASSY
132A	YQ44266	LAMP
133	LY32114-001A	MICROPHONE
134	LY40698-002A	LABEL(HOUSING)
135	LY40699-002A	LABEL(PUSH)
136	LY43093-003A	STICKER(TOP),A,B
	LY43093-011A	STICKER(TOP),C
137	LY43094-002A	STICKER(SIDE)
138	LY42182-002A	CAP(HOOD)ASSY
138A	LY31627-001A	SPRING
140	LY30018-084A	SPECIAL SCREW,X3
141	LY30018-096A	SPECIAL SCREW,X2
142	LY30018-038A	SPECIAL SCREW
143	LY30018-084A	SPECIAL SCREW
144	LY30018-0D1A	SPECIAL SCREW
145	LY30018-084A	SPECIAL SCREW,X4
146	LY30018-084A	SPECIAL SCREW,X3
147	LY30018-038A	SPECIAL SCREW,X2
148	LY30018-038A	SPECIAL SCREW,X5
149	LY30018-084A	SPECIAL SCREW,X2
150	LY30018-084A	SPECIAL SCREW,X2
151	LY30018-023A	SPECIAL SCREW
155	LY30018-084A	SPECIAL SCREW
156	LY30019-029B	SPECIAL SCREW,X2
157	LY30018-023A	SPECIAL SCREW
158	LY30018-0D6A	SPECIAL SCREW,X2
159	LY30018-023A	SPECIAL SCREW,X3
160	LY30018-006B	SPECIAL SCREW
162	LY30018-063A	SPECIAL SCREW
163	LY30018-064A	SPECIAL SCREW
170	LY30019-026A	SPECIAL SCREW,X2
171	YQ43893-4	MINI SCREW
172	YQ43893-4	MINI SCREW
173	LY30019-033A	SPECIAL SCREW,X2
174	QYSPSPT1730Z	SCREW,X2
175	LY30018-066A	SPECIAL SCREW,X4
176	LY30018-084A	SPECIAL SCREW
177	LY30018-084A	SPECIAL SCREW,X2
178	LY30018-084A	SPECIAL SCREW,X3
179	LY30018-084A	SPECIAL SCREW,X5
180	LY30018-092A	SPECIAL SCREW
185	LY30018-065A	SPECIAL SCREW
186	LY30018-006B	SPECIAL SCREW
187	LY30018-092A	SPECIAL SCREW
188	LY30018-065A	SPECIAL SCREW
189	LY30018-037A	SPECIAL SCREW
190	LY30018-037A	SPECIAL SCREW
191	LY30018-084A	SPECIAL SCREW,X2
195	LY20696-001A	BRACKET(MECHA)
196	LY42846-001A	BKT(OP) ASSY
196A	LY42796-001A	BUSH,X2
198	LY32081-001A	SHIELD PLATE
199	WJT0044-001A	E-CARD WIRE,MAIN CN113-JUNC CN571
200	LY43092-001A	PLATE

– OPTICAL BLOCK SECTION –

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
251	J7A-233A	OPTICAL BLOCK ASSY
251A	LY30723-001B	ZOOM MOTOR
251B	LY30724-001B	FOCUS MOTOR
251C	LY30727-002A	SCREW,X5
251D	LY30727-001A	SCREW,X2
251E	LY42936-001A	OPTICAL LPF
251F	LY31639-001A	SPACER RUBBER
251G	QYSPSGU1750Z	SCREW,X2
251H	LY32160-001A	IRIS MOTOR
251J	YS40168F	CCD BASE ASSY

5.3 MECHANISM ASSEMBLY <M3>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Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-P	AA
Oil	YTU94027	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

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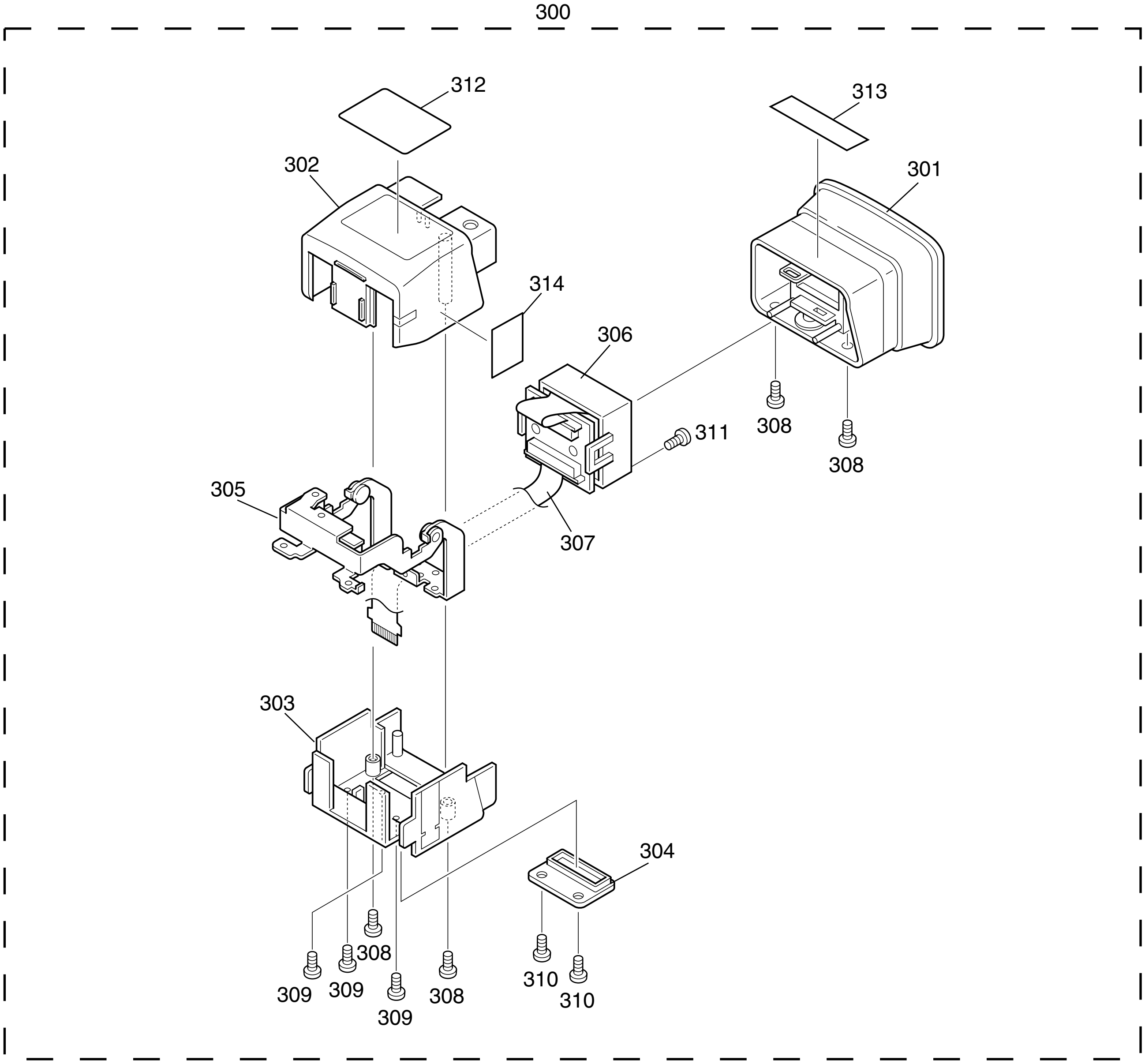
MECHANISM ASSEMBLY <M3>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
400	YMA0025H	MECHA(A)ASSY
401	LY10077-001M	MAIN DECK ASSY
402	LY30436-001G	SLANT POLE ARM ASSY
403	YQ44246	SLIT WASHER
404	LY30438-001B	CLEANER ARM ASSY
405	LY10080-001V	RAIL ASSY
406	YQ44246	SLIT WASHER,X3
407	LY40353-001D	GUIDE ROLLER(S)ASSY
408	LY30002-006C	COMPRESSION SPRING
409	QAR0026-002	CAPSTAN MOTOR
410	LY30504-001C	CATCHER(T)ASSY
411	YQ43893	MINI SCREW,X4
413	LY30448-001H	MOTOR BKT ASSY
414	YQ43893	MINI SCREW,X2
415	LY30449-001C	WORM WHEEL
416	YQ44246	SLIT WASHER
417	LY40496-001C	ROTARY ENCODER
418	YQ43893	MINI SCREW
419	YQ44246	SLIT WASHER
420	LY40614-001B	GEAR HOLDER
421	YQ43893-6	MINI SCREW
422	LY30450-001C	MAIN CAM
423	LY30840-001A	BRAKE CTL PLATE
424	YQ43893	MINI SCREW
425	LY40373-001C	TC LEVER ASSY
426	LY30452-001G	SLIDE LEVER ASSY
427	LY30454-001A	CONNECT GEAR
428	YQ44246	SLIT WASHER
429	LY30455-001B	SUB CAM
430	YQ43893	MINI SCREW
431	LY30456-001F	PINCHROLLER ARM ASSY
432	YQ44246	SLIT WASHER
433	LY30459-001A	CHARGE ARM ASSY
434	YQ44246	SLIT WASHER
435	LY40387-001D	BC LEVER ASSY
436	LY40389-001D	REEL DRIVE PULLEY ASSY
437	YQ44246-2	SLIT WASHER
438	LY40391-002B	CENTER GEAR ASSY
439	LY40396-001A	TIMING BELT
440	LY40413-001A	COLLAR,X2
441	LY30468-001E	GUIDE ARM ASSY
442	LY30618-001C	SLIDE GUIDE PLATE ASSY
443	YQ43893-2	MINI SCREW
444	LY40420-001J	TENSION ARM ASSY
445	YQ44246	SLIT WASHER
446	LY30471-001D	PAD ARM ASSY
447	YQ44246	SLIT WASHER
448	LY40432-001H	IDLER ARM ASSY
449	YQ44246-2	SLIT WASHER
450	LY30476-001A	GUIDE PIN(S)
451	YQ43893	MINI SCREW
452	LY40441-001B	REEL DISK(SUPPLY)ASSY
453	YQ44246	SLIT WASHER
454	LY40443-001B	REEL DISK(TAKE-UP)ASSY
455	YQ44246	SLIT WASHER
456	LY30477-001F	CTL PLATE ASSY
457	YQ44246	SLIT WASHER,X2
458	LY40444-001E	LOADING BRAKE ASSY
459	YQ44246	SLIT WASHER
460	LY40452-001C	SUB BRAKE ASSY
461	YQ44246	SLIT WASHER
462	LY30479-001E	RELEASE GUIDE ASSY
463	YQ44246	SLIT WASHER
464	LY20146-001H	REEL COVER ASSY
465	YQ43893-4	MINI SCREW,X2
466	YQ43893	MINI SCREW
467	YQ44246	SLIT WASHER
468	YDV2086K	DRUM ASSY
469	YQ43893	MINI SCREW,X3
470	LY20138-001D	PWB HOLDER
471	YQ43893	MINI SCREW,X2
472	LY10082-001L	SLIDE DECK ASSY
473	LY30462-001B	LOADING GUIDE
474	YQ43893	MINI SCREW
476	LY30016-0M1A	SPACER-A
478	LY30496-001W	DECK ASSY
480	LY41573-001A	WASHER
481	LY30483-001Q	CASSETTE HOUSING ASSY
482	YQ43893-4	MINI SCREW,X3

5.4 ELECTRONIC VIEWFINDER ASSEMBLY <M4> [GR-DVL450EG]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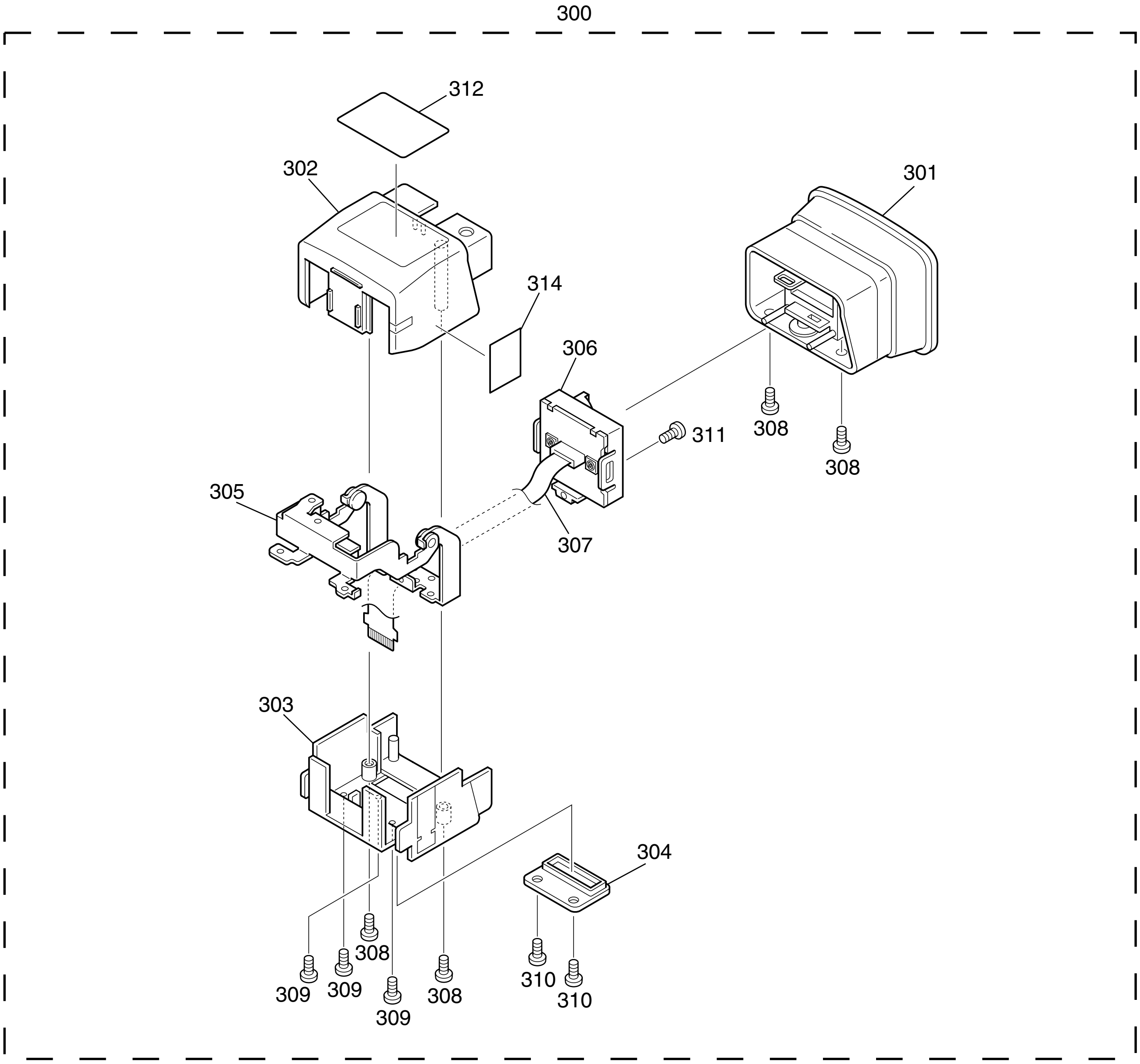
ELECTRONIC VIEWFINDER ASSEMBLY <M4>

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION
		300	LY20712-002B	VF ASSY
		301	PTY20712-001	EYE PIECE ASSY
		302	PTY20712-011	TOP CASE SUB ASSY
		303	PTY20712-021	BOTTOM CASE
		304	PTY20712-022	CAP(VF)
		305	PTY20712-031	HINGE ASSY
		306	PTY20712-041	LCD ASSY
		307	QAL0287-001	FPC
		308	LY30018-063A	SPECIAL SCREW,X4
		309	LY30018-055A	SPECIAL SCREW,X3
		310	LY30018-035A	SPECIAL SCREW,X2
		311	PTY20712-051	SCREW
		312	LY41701-002A	SHEET(CAUTION)1
		313	LY40074-001A	LABEL/COLOR
		314	LY43041-002A	LABEL(VF)

5.4 ELECTRONIC VIEWFINDER ASSEMBLY <M4> [GR-DVL150EG/EK]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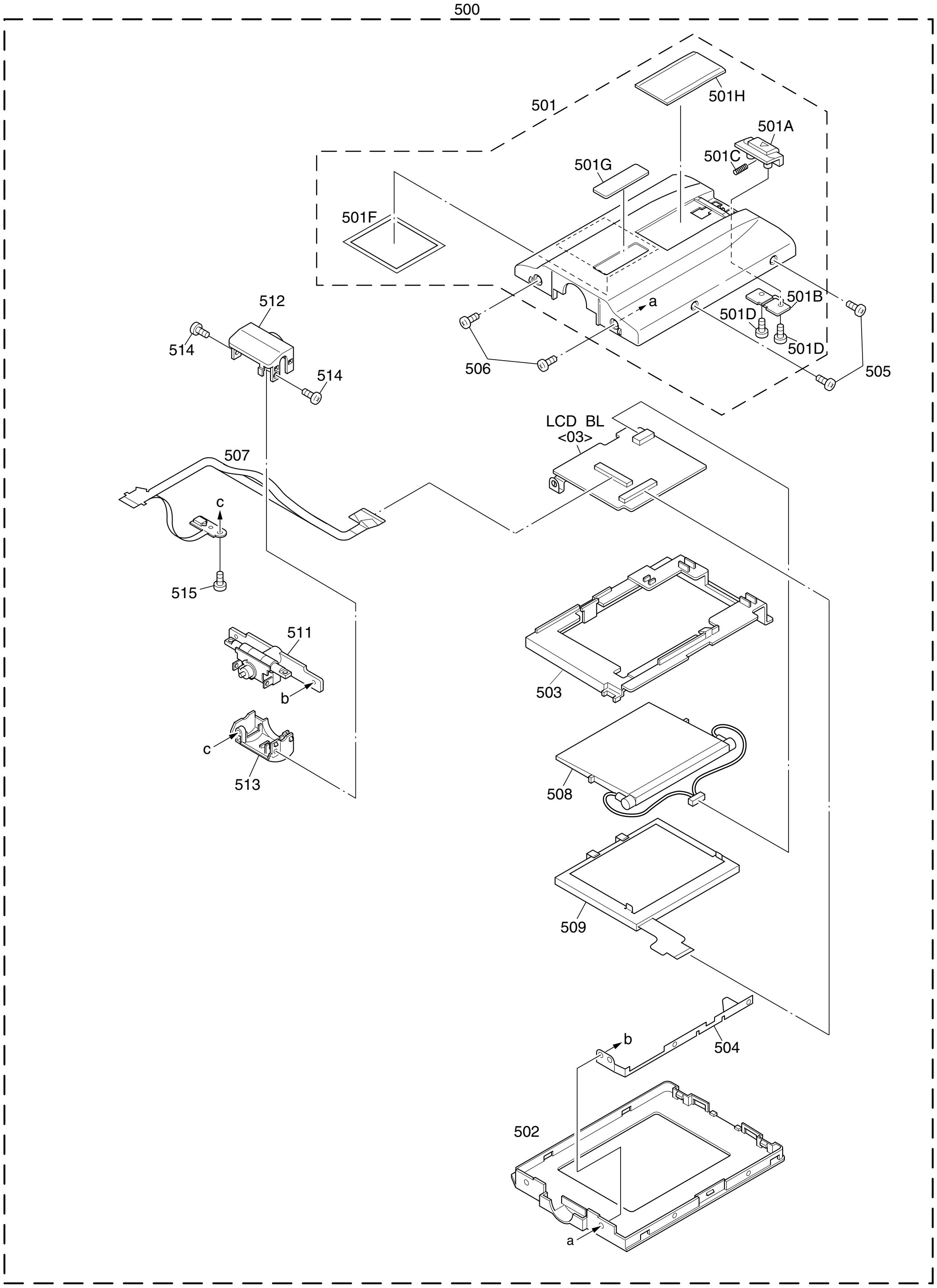
# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
			********************************
			ELECTRONIC VIEWFINDER ASSEMBLY <M4>
	300	LY20744-002B	VF UNIT,A
		LY20744-003A	VF UNIT,B
	301	PTY20744-001	EYE PIECE ASSY
	302	PTY20712-011	TOP CASE SUB ASSY
	303	PTY20712-021	BOTTOM CASE
	304	PTY20712-022	CAP(VF)

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	305	PTY20712-031	HINGE ASSY
	306	PTY20744-041	LCD ASSY
	307	QAL0288-001	FPC
	308	LY30018-063A	SPECIAL SCREW,X4
	309	LY30018-055A	SPECIAL SCREW,X3
	310	LY30018-035A	SPECIAL SCREW,X2
	311	PTY20744-051	SCREW
	312	LY41701-002A	SHEET(CAUTION)1
	314	LY43041-002A	LABEL(VF),A

5.5 MONITOR ASSEMBLY <M5> [GR-DVL150EG/EK]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# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION

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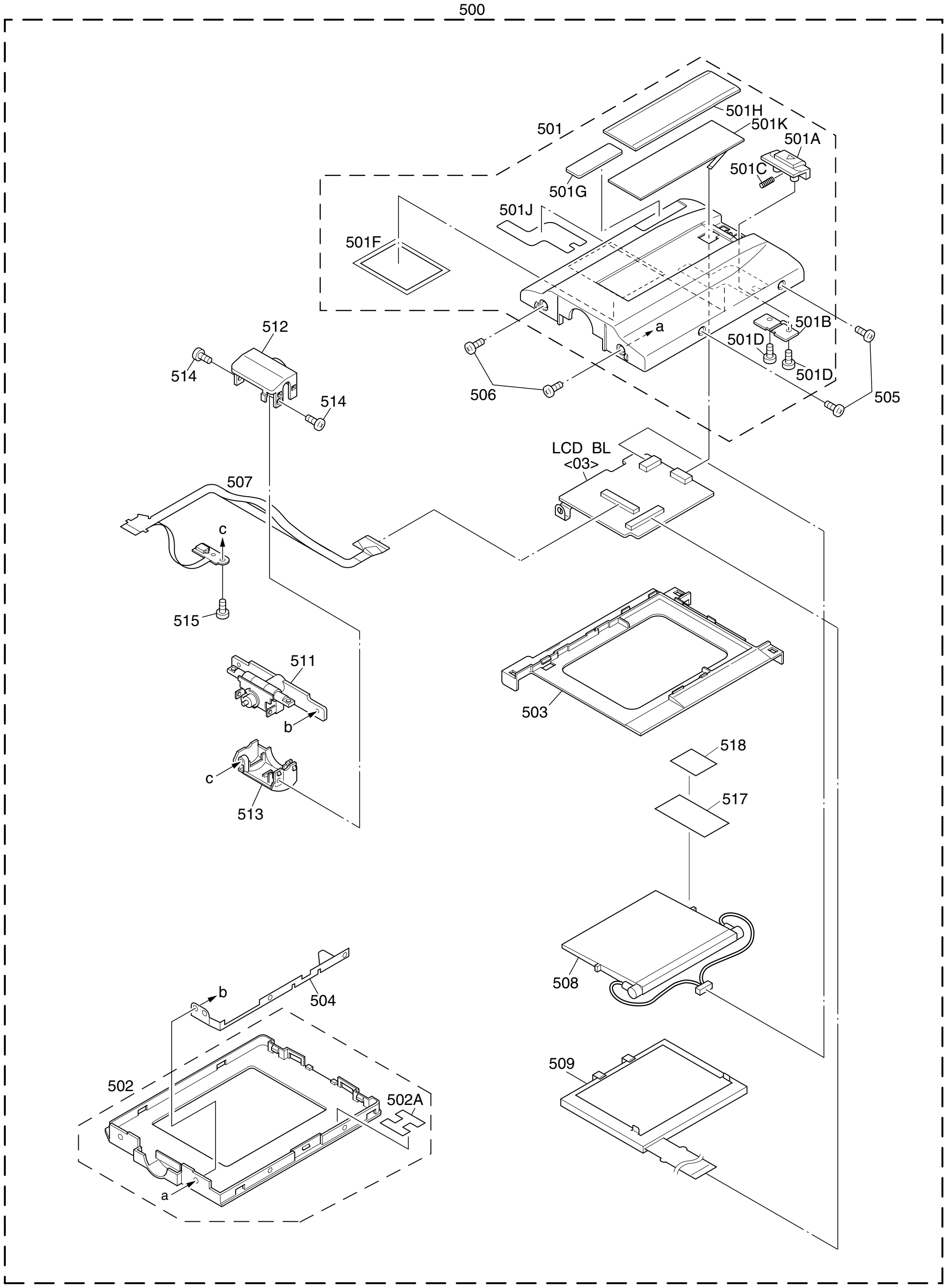
MONITOR ASSEMBLY <M5>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
⚠	500	LYH20246-008B	MONITOR ASSY
⚠	501	LY20702-002B	MONITOR COVER(2.5)ASSY
	501A	LY31620-001A	KNOB(LOCK 1)
	501B	LY42180-001A	KNOB(LOCK 2)
	501C	LY30002-044A	COMPRESSION SPRING
	501D	LY30018-084A	SPECIAL SCREW,X2
	501F	LY40559-001A	SHIELD SHEET
	501G	LY42883-001A	MARK
	501H	LY32087-001B	WINDOW
	502	LY10264-001A	MONITOR CASE(2.5)
	503	LY20674-001A	HOLDER(2.5)
	504	LY31622-001A	BRACKET(EARTH)
	505	QYSPSPT1730R	SCREW,X2
	506	QYSLSP2040D	SCREW,X2
	507	LY31743-001A	MONITOR FPC ASSY
	508	QLL0093-001	BACK LIGHT
	509	QLD0154-001	LCD MODULE
	511	LY32079-001A	HINGE ASSY
	512	LY32088-001A	HINGE COVER(1)
	513	LY32089-001A	HINGE COVER(2)
	514	LY30018-058A	SPECIAL SCREW,X2
	515	LY30018-023A	SPECIAL SCREW

5.5 MONITOR ASSEMBLY <M5> [GR-DVL450EG]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MONITOR ASSEMBLY <M5>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
⚠	500	LYH20246-012A	MONITOR ASSY
⚠	501	LY20721-003A	MONITOR COVER(3.5)ASSY
	501A	LY31620-001A	KNOB(LOCK 1)
	501B	LY42180-001A	KNOB(LOCK 2)
	501C	LY30002-044A	COMPRESSION SPRING
	501D	LY30018-011A	SPECIAL SCREW,X2
	501F	LY40559-001A	SHIELD SHEET
	501G	LY42883-001A	MARK
	501H	LY32121-003A	WINDOW
	501J	LY42386-001A	EARTH MON
	501K	LY42193-001A	EL(WINDOW)
	502	LY20598-002A	MONITOR CASE ASSY
	502A	LY42388-001A	EARTH MON(2)
	503	LY20568-001A	HOLDER(3.5PWB)
	504	LY31622-001A	BRACKET(EARTH)
	505	QYSPSPT1730R	SCREW,X2
	506	QYSLSP2040D	SCREW,X2
	507	LY31743-001A	MONITOR FPC ASSY
	508	QLL0081-001	BACK LIGHT
	509	QLD0096-002	LCD MODULE
	511	LY32079-001A	HINGE ASSY
	512	LY32088-001A	HINGE COVER(1)
	513	LY32089-001A	HINGE COVER(2)
	514	LY30018-058A	SPECIAL SCREW,X2
	515	LY30018-023A	SPECIAL SCREW
	517	LY30029-0A5A	SPACER(A)
	518	PU59915-105	#500SPACER0.01

MODEL	MARK
GR-DVL150EG	A
GR-DVL150EK	B
GR-DVL450EG	C

5.6 ELECTRICAL PARTS LIST

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MAIN BOARD ASSEMBLY <01>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
PW	YB10313PA-03	MAIN BOARD ASSY,A
	YB10313PA-04	MAIN BOARD ASSY,B,C
IC1001	UPD703039F1-A03	IC(MICRO C ROM)
	or UPD70F3040F1A03	IC(MICRO C ROM)
IC1002	RS5C314	IC
IC1003	AT25160N-10SC-X	IC
	or X25170S8I-2.5-X	IC
	or 25LC160-I/SN-X	IC
IC1004	TC75S56FU	IC
IC1005	TC7S00FU	IC
	or SN74AHC1G00K	IC
IC1006	MB90097PFV139	IC(MICRO C ROM)
IC1007	TC74VHC08FT	IC(DIGITAL)
	or SN74LV08APW	IC
IC1009	IC-PST9323U-X	IC
IC1301	SN74LV08APW	IC
	or TC74VHC08FT	IC(DIGITAL)
IC1302	MAX3221CAE	IC
IC1303	TC7S32FU	IC(DIGITAL)
	or SN74AHC1G32K	IC
IC1304	TC7S02FU	IC(DIGITAL)
	or SN74AHC1G02K	IC
IC1401	YQ44882A	CSP IC ASSY
IC1402	TC7W66FK	IC
IC1404	TC7W14FU	IC(DIGITAL)
	or SN74AHC2G14T	IC
IC1601	BD6630KV	IC
IC2001	AK4560AVQ	IC
IC3001	JCY0133	IC
IC3002	JCY0136	IC
IC3003	TLC2940IPW	IC
IC3004	SN74AHC1G04K	IC
IC3006	JCY0164	IC
IC3007	SN74AHC2G53T	IC
	TC7SL00FU	IC(DIGITAL)
IC3501	JCY0132	IC
IC3701	BA7665FS	IC
IC4201	HD49326BF	IC
IC4202	MM1385HN	IC
IC4301	JCY0150	IC
IC4302	TMS4C2973-28-X	IC
IC4802	TA75W01FU	IC
IC4803	TA75W01FU	IC
IC4804	UPC358G2/5/-W	IC
IC4806	TC7W00FK	IC
IC4851	UPD16879GS	IC
IC5501	JCY0117	IC
IC6001	S-80842ANNP-W	IC
IC6101	FA3698F	IC
Q1001	DTC124EE	TRANSISTOR
Q1002	2SC4617/RS/-X	TRANSISTOR
Q1003	DTC143EE	TRANSISTOR
Q1004	DTA114EE	TRANSISTOR
	or PDTA114EE	TRANSISTOR
	or RN2102	TRANSISTOR
Q1005	DTC144EE	TRANSISTOR
	or PDTC144EE	TRANSISTOR
	or RN1104	TRANSISTOR
	or UN9213J	TRANSISTOR
Q1006	DTA114EE	TRANSISTOR
	or PDTA114EE	TRANSISTOR
	or RN2102	TRANSISTOR
Q1007	DTC144EE	TRANSISTOR
	or PDTC144EE	TRANSISTOR
	or RN1104	TRANSISTOR
	or UN9213J	TRANSISTOR
Q1301	2SC4617/RS/-X	TRANSISTOR
Q1401	DTA114EE	TRANSISTOR
	or PDTA114EE	TRANSISTOR
	or RN2102	TRANSISTOR
Q1402	UMC3N	TRANSISTOR
Q1403	UMC3N	TRANSISTOR
Q1404	DTC144EE	TRANSISTOR
	or PDTC144EE	TRANSISTOR
	or RN1104	TRANSISTOR
	or UN9213J	TRANSISTOR
Q1601	UMC3N	TRANSISTOR
Q2001	UMX1N	PAIR TRANSISTOR
Q2002	2SC4617/RS/-X	TRANSISTOR
Q2004	2SC4617/RS/-X	TRANSISTOR
Q3701	UMT2N	PAIR TRANSISTOR
Q3702	UMZ1N	PAIR TRANSISTOR
Q4301	UMT2N	PAIR TRANSISTOR
Q4302	UMT2N	PAIR TRANSISTOR
Q4801	2SC4655/BC/-X	TRANSISTOR
Q4851	2SC4617/RS/-X	TRANSISTOR
Q6001	DTC144EE	TRANSISTOR
	or PDTC144EE	TRANSISTOR
	or RN1104	TRANSISTOR
	or UN9213J	TRANSISTOR
Q6002	2SK3019	MOS FET
Q6003	2SJ347	MOS FET
Q6004	2SB1121/TU/-X	TRANSISTOR
Q6101	2SK3019	MOS FET
Q6102	2SK3019	MOS FET
Q6201	NDS352AP	MOS FET
Q6202	2SA1577/RS/-X	TRANSISTOR
Q6203	SSM6J07FU	MOS FET
Q6204	CPH3304	MOS FET
Q6205	CPH3101	TRANSISTOR
Q6206	2SC4617/RS/-X	TRANSISTOR
Q6207	2SD1621/TU/-X	TRANSISTOR
Q6208	SSM6J07FU	MOS FET
Q6210	SSM6J07FU	MOS FET
Q6211	NDS352AP	MOS FET
Q6212	HN1C01FU/G/-X	PAIR TRANSISTOR
	or PUMX1	PAIR TRANSISTOR
Q6213	2SA1577/RS/-X	TRANSISTOR
Q6214	DTC144EE	TRANSISTOR
	or PDTC144EE	TRANSISTOR
	or RN1104	TRANSISTOR
	or UN9213J	TRANSISTOR
Q6215	HN1A01FU/G/-X	PAIR TRANSISTOR
	or PUMT1	PAIR TRANSISTOR
Q6216	2SC4617/RS/-X	TRANSISTOR
Q6217	UMZ1N	PAIR TRANSISTOR
Q6701	TPC6102	MOS FET
D1001	DA221	DIODE
D1302	RB501V-40-X	SB DIODE
D1602	DAP222	DIODE
D1603	DAP222	DIODE

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	D1604	DAP222	DIODE	
	D3001	EC2C01C	VARI CAP DIODE	
	D3002	EC2C01C	VARI CAP DIODE	
	D3003	EC2C01C	VARI CAP DIODE	
	D5501	1SS355	DIODE	
⚠	D6002	RB715F	SB DIODE	
	D6201	EP10LA03	SB DIODE	
	D6202	EP10LA03	SB DIODE	
	D6203	EP10LA03	SB DIODE	
	D6204	EP10LA03	SB DIODE	
	D6205	EP10LA03	SB DIODE	
	D6206	1SS383	SB DIODE	
	D6207	MA8091/L/-X	ZENER DIODE	
	D6701	CRS09	SB DIODE	
	D6702	CRS09	SB DIODE	
	R1001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1002	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
	R1003	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R1004	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1005	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
	R1006	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1007	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
	R1008	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
	R1009	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
	R1010	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
	R1011	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1012	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1013	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1014	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1015	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
	R1016	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
	R1017	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1018	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1019	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R1020	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1021	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1022	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1023	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1024	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
	R1025	NRVA6AD-623W	CMF RESISTOR	62kΩ,1/16W
	R1026	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1027	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1028	NRSA6AJ-185W	MG RESISTOR	1.8MΩ,1/16W
	R1029	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1030	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1031	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1032	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1033	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1034	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1036	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R1037	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1038	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R1039	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1040	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1041	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1042	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1043	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1044	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
	R1045	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
	R1046	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1047	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1048	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1049	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	R1050	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
	R1051	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
	R1052	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
	R1053	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
	R1054	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1055	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1056	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R1057	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1058	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
	R1061	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1062	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1080	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1302	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R1306	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R1401	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1402	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
	R1403	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
	R1408	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R1409	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1413	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1414	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1415	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1416	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
	R1417	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1418	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
	R1419	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
	R1420	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
	R1422	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1423	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1424	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1425	NRVA6AD-753W	CMF RESISTOR	75kΩ,1/16W
	R1426	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
	R1427	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1428	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
	R1429	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1430	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1432	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
	R1433	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1434	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
	R1435	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1436	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
	R1437	NRVA6AD-103W	CMF RESISTOR	10kΩ,1/16W
	R1439	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1440	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1441	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1442	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	R1445	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
	R1601	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
	R1602	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
	R1603	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
	R1604	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1605	NRV142F-R22X	CMF RESISTOR	0.22Ω,1/4W
	R1606	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1608	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
	R1609	NRV142F-R33X	CMF RESISTOR	0.33Ω,1/4W
	R1610	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
	R1611	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
	R1612	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	R1613	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R1614	NRVA6AD-682W	CMF RESISTOR	6.8kΩ,1/16W
	R1615	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
	R1616	NRSA6AJ-391W	MG RESISTOR	390Ω,1/16W
	R1617	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R1618	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R1619	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R1620	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1621	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1622	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1624	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
R1625	NRSA6AJ-181W	MG RESISTOR	180Ω,1/16W
R1626	NRSA6AJ-181W	MG RESISTOR	180Ω,1/16W
R1628	NRVA6AD-271W	CMF RESISTOR	270Ω,1/16W
R1629	NRSA6AJ-684W	MG RESISTOR	680kΩ,1/16W
R1630	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1631	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1635	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1636	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1637	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R2006	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2007	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2008	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2009	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2014	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
R2015	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
R2016	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
R2017	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2018	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2019	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2020	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2023	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2024	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R2025	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2026	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2027	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2028	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R2029	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2101	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R2102	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R2103	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2104	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2105	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2106	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2107	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2108	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2109	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2110	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2111	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2112	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2113	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2114	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2117	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2118	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2119	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2120	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2127	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2128	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2129	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2130	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2201	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R2202	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R3002	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3004	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3007	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
R3008	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3009	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3010	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R3011	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3013	NRSA6AJ-242W	MG RESISTOR	2.4kΩ,1/16W
R3014	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3015	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3016	NRSA6AD-560W	MG RESISTOR	56Ω,1/16W
R3017	NRSA6AD-560W	MG RESISTOR	56Ω,1/16W
R3018	NRSA6AD-560W	MG RESISTOR	56Ω,1/16W
R3019	NRSA6AD-560W	MG RESISTOR	56Ω,1/16W
R3020	NRSA6AD-512W	MG RESISTOR	5.1kΩ,1/16W
R3027	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3029	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3030	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3031	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3033	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3034	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3041	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3042	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3043	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3044	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3046	NRSA6AD-222W	MG RESISTOR	2.2kΩ,1/16W
R3050	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3052	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3053	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3054	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3055	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3501	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R3502	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3503	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3504	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3505	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3506	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3507	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3508	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R3521	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3522	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3701	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3702	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3703	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3706	NRSA6AD-221W	MG RESISTOR	220Ω,1/16W
R3707	NRSA6AD-221W	MG RESISTOR	220Ω,1/16W
R3708	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3711	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R3712	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R3713	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R3714	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R3715	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3717	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3718	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3719	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3723	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3724	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R4202	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4203	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4204	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4205	NRSA6AJ-243W	MG RESISTOR	24kΩ,1/16W
R4206	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4207	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4208	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4301	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4304	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4305	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4307	NRSA6AD-333W	MG RESISTOR	33kΩ,1/16W
R4308	NRSA6AD-682W	MG RESISTOR	6.8kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R4309	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4311	NRSA6AD-272W	MG RESISTOR	2.7kΩ,1/16W
R4312	NRSA6AD-272W	MG RESISTOR	2.7kΩ,1/16W
R4313	NRSA6AD-272W	MG RESISTOR	2.7kΩ,1/16W
R4314	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
R4315	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
R4316	NRSA6AD-111W	MG RESISTOR	110Ω,1/16W
R4317	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4318	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R4319	NRSA6AD-111W	MG RESISTOR	110Ω,1/16W
R4320	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4321	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R4322	NRSA6AD-111W	MG RESISTOR	110Ω,1/16W
R4323	NRSA6AD-101W	MG RESISTOR	100Ω,1/16W
R4324	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R4326	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4327	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R4328	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4329	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4333	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4336	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4337	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4338	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4339	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4340	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4341	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4343	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4344	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4346	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R4347	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4348	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4349	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4350	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4351	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4804	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R4805	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4806	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
R4807	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R4808	NRSA6AJ-243W	MG RESISTOR	24kΩ,1/16W
R4809	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R4810	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4811	NRSA6AJ-824W	MG RESISTOR	820kΩ,1/16W
R4812	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R4814	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4815	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4816	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4817	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R4818	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R4819	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4820	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4821	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4822	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4823	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4824	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4833	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4836	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4856	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
R4857	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
R4858	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4862	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
R4863	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
R4864	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4865	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4866	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4867	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4868	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4870	NRVA6AD-271W	CMF RESISTOR	270Ω,1/16W
R4874	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R5501	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R5503	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R5504	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R5505	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R5506	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R5507	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R5509	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
R5510	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
R5511	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
R5512	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R5513	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R5514	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R6001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6002	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6003	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R6004	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R6005	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
⚠ R6009	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
R6010	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R6011	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R6012	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
R6013	NRVA6AD-683W	CMF RESISTOR	68kΩ,1/16W
R6014	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R6015	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
R6016	NRVA6AD-333W	CMF RESISTOR	33kΩ,1/16W
R6101	NRVA6AD-103W	CMF RESISTOR	10kΩ,1/16W
R6102	NRVA6AD-751W	CMF RESISTOR	750Ω,1/16W
R6103	NRVA6AD-333W	CMF RESISTOR	33kΩ,1/16W
R6104	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6105	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
R6106	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R6107	NRVA6AD-562W	CMF RESISTOR	5.6kΩ,1/16W
R6108	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R6110	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6113	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R6114	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R6115	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R6116	NRVA6AD-153W	CMF RESISTOR	15kΩ,1/16W
R6117	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6118	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R6122	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6124	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R6201	NRVA6AD-243W	CMF RESISTOR	24kΩ,1/16W
R6203	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
R6204	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R6205	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R6206	NRVA6AD-183W	CMF RESISTOR	18kΩ,1/16W
R6207	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
R6208	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
R6209	NRVA6AD-153W	CMF RESISTOR	15kΩ,1/16W
R6210	NRVA6AD-183W	CMF RESISTOR	18kΩ,1/16W
R6212	NRVA6AD-472W	CMF RESISTOR	4.7kΩ,1/16W
R6213	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R6214	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R6215	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R6217	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
R6218	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6219	NRVA6AD-243W	CMF RESISTOR	24kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R6220	NRVA6AD-302W	CMF RESISTOR	3kΩ,1/16W
R6221	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
R6223	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
R6224	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
R6225	NRVA6AD-562W	CMF RESISTOR	5.6kΩ,1/16W
R6226	NRVA6AD-223W	CMF RESISTOR	22kΩ,1/16W
R6227	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
R6228	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
R6229	NRVA6AD-332W	CMF RESISTOR	3.3kΩ,1/16W
R6230	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R6231	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
R6232	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
R6233	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R6234	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W
R6235	NRVA6AD-683W	CMF RESISTOR	68kΩ,1/16W
R6236	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
R6237	NRVA6AD-753W	CMF RESISTOR	75kΩ,1/16W
R6238	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
R6239	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R6240	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R6241	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R6242	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6243	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R6244	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R6245	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
R6246	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R6701	NRZ0058-R20X	MG RESISTOR	0.2Ω,1/2W
R6702	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
R6703	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
R6712	NRVA6AD-823W	CMF RESISTOR	82kΩ,1/16W
R6713	NRVA6AD-333W	CMF RESISTOR	33kΩ,1/16W
RA1001	NRZ0034-102W	NETWORK RESISTOR	1kΩ
RA1002	NRZ0034-102W	NETWORK RESISTOR	1kΩ
RA1003	NRZ0034-102W	NETWORK RESISTOR	1kΩ
RA1004	NRZ0034-102W	NETWORK RESISTOR	1kΩ
RA1005	NRZ0034-102W	NETWORK RESISTOR	1kΩ
RA1006	NRZ0034-102W	NETWORK RESISTOR	1kΩ
RA1007	NRZ0034-102W	NETWORK RESISTOR	1kΩ
RA1008	NRZ0034-104W	NETWORK RESISTOR	100kΩ
RA1009	NRZ0034-104W	NETWORK RESISTOR	100kΩ
RA1010	NRZ0034-104W	NETWORK RESISTOR	100kΩ
RA1401	NRZ0034-473W	NETWORK RESISTOR	47kΩ
RA1402	NRZ0034-102W	NETWORK RESISTOR	1kΩ
RA1403	NRZ0034-102W	NETWORK RESISTOR	1kΩ
RA3001	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA3002	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA4301	NRZ0034-101W	NETWORK RESISTOR	100Ω
RA4302	NRZ0034-101W	NETWORK RESISTOR	100Ω
RA4303	NRZ0034-101W	NETWORK RESISTOR	100Ω
C1001	NBE20JM-226X	T CAPACITOR	22µF,6.3V
C1002	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1003	NBE20JM-226X	T CAPACITOR	22µF,6.3V
C1004	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1005	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1006	NDCA1HJ-130W	CAPACITOR	13pF,50V
C1007	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1009	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1010	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1011	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1012	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1014	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1015	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1016	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1017	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1019	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1023	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1024	NDCA1HJ-100W	CAPACITOR,A	10pF,50V
C1025	NDCA1HJ-100W	CAPACITOR,A	10pF,50V
C1026	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1027	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1028	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1029	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1030	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1031	NCB30JK-105X	CAPACITOR	1µF,6.3V
C1036	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1039	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1040	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1041	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1301	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1302	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1303	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1304	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1305	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1306	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1307	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1401	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C1402	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C1405	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1406	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1408	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1409	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1410	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1411	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1412	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1413	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
C1414	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1415	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1416	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1417	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1418	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1419	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1420	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1601	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1602	NBE21AM-106X	T CAPACITOR	10µF,10V
C1603	NBE21AM-106X	T CAPACITOR	10µF,10V
C1605	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1606	NCB31HK-152X	CAPACITOR	0.0015µF,50V
C1607	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C1614	NBE21AM-106X	T CAPACITOR	10µF,10V
C1618	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
C1619	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
C1620	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
C1621	NCB21CK-105X	CAPACITOR	1µF,16V
C1622	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1623	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C1624	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1625	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C1626	NCBA1HK-331W	CAPACITOR	330pF,50V
C1627	NCBA1CK-822W	CAPACITOR	0.0082µF,16V
C1628	NCB21CK-224X	CAPACITOR	0.22µF,16V
C1632	NBE21AM-106X	T CAPACITOR	10µF,10V
C1633	NCB21CK-474X	CAPACITOR	0.47µF,16V
C1635	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1641	NCB21CK-474X	CAPACITOR	0.47µF,16V
C2001	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2002	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2004	NCB21CK-105X	CAPACITOR	1µF,16V
C2005	NCB21CK-105X	CAPACITOR	1µF,16V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C2006	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2007	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2008	NCB21CK-105X	CAPACITOR	1μF,16V
C2009	NCB21CK-105X	CAPACITOR	1μF,16V
C2010	NCB21CK-105X	CAPACITOR	1μF,16V
C2011	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2012	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2013	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2014	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2015	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2016	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C2017	NCBA1AK-333W	CAPACITOR	0.033μF,10V
C2018	NCB31CK-104X	CAPACITOR	0.1μF,16V
C2019	NCB31CK-104X	CAPACITOR	0.1μF,16V
C2020	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2021	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2101	NCB31CK-104X	CAPACITOR	0.1μF,16V
C2102	NCB31CK-104X	CAPACITOR	0.1μF,16V
C2103	NCB21CK-105X	CAPACITOR	1μF,16V
C2104	NCB21CK-105X	CAPACITOR	1μF,16V
C2109	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2110	NCB21CK-105X	CAPACITOR	1μF,16V
C2111	NCBA1EK-472W	CAPACITOR	0.0047μF,25V
C2112	NCBA1EK-472W	CAPACITOR	0.0047μF,25V
C2113	NCBA1EK-472W	CAPACITOR	0.0047μF,25V
C2114	NCBA1EK-472W	CAPACITOR	0.0047μF,25V
C2115	NCB31CK-104X	CAPACITOR	0.1μF,16V
C2116	NCB31CK-104X	CAPACITOR	0.1μF,16V
C2121	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C2122	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C2123	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C2124	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C2125	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C2126	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C2131	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2132	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2133	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C2134	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C2201	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2202	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3001	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3003	NCB21CK-105X	CAPACITOR	1μF,16V
C3004	NCB21CK-105X	CAPACITOR	1μF,16V
C3005	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3007	NCB11CK-105X	CAPACITOR	1μF,16V
C3008	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3011	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3012	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3013	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3015	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3016	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3017	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3020	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3021	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3022	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3023	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3024	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C3025	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3026	NCB30JK-105X	CAPACITOR	1μF,6.3V
C3027	NCBA1EK-472W	CAPACITOR	0.0047μF,25V
C3028	NDCA1EJ-271W	CAPACITOR	270pF,25V
C3029	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3030	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3031	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3032	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C3033	NDCA1HJ-470W	CAPACITOR	47pF,50V
C3034	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C3035	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3038	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3039	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3040	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3041	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3042	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3043	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3044	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3045	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3046	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3047	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3051	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3052	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C3053	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C3056	NCB30JK-105X	CAPACITOR	1μF,6.3V
C3057	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3058	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3060	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3061	NCB21CK-105X	CAPACITOR	1μF,16V
C3062	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3063	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3064	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3501	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3502	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3503	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3504	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C3505	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C3506	NCB21CK-105X	CAPACITOR	1μF,16V
C3507	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3508	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3509	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3510	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3511	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3512	NCB31CK-104X	CAPACITOR	0.1μF,16V
C3513	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3514	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C3515	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C3516	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C3517	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3518	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3519	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C3520	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3521	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3522	NCB20JM-475X	CAPACITOR	4.7μF,6.3V
C3523	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3524	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3525	NCB20JM-475X	CAPACITOR	4.7μF,6.3V
C3526	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3527	NDCA1EJ-221W	CAPACITOR	220pF,25V
C3701	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3702	NDCA1HJ-151W	CAPACITOR	150pF,50V
C3703	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3704	NDCA1HJ-101W	CAPACITOR	100pF,50V
C3705	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3706	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3707	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C3708	NCB30JK-105X	CAPACITOR	1μF,6.3V
C3709	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3710	NCBA1CK-103W	CAPACITOR	0.01μF,16V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3711	NBE20GM-226X	T CAPACITOR	22μF,4.0V
C3712	NBE40GM-107X	T CAPACITOR	100μF,4.0V
C3713	NEA70GM-337X	E CAPACITOR	330μF,4.0V
C4201	NBE40GM-107X	T CAPACITOR	100μF,4.0V
C4202	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4203	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4204	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4205	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4206	NCB21CK-105X	CAPACITOR	1μF,16V
C4207	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4208	NCBA1HK-392W	CAPACITOR	0.0039μF,50V
C4209	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4210	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4211	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4212	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4213	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4214	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4215	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4216	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4301	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4303	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4304	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4305	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4306	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4307	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4308	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4309	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4310	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4311	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4312	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4313	NBE20JM-226X	T CAPACITOR	22μF,6.3V
C4314	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4315	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4317	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4318	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4319	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4320	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4321	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4323	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4324	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4325	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4327	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4328	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4329	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4330	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4331	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4332	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4333	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4334	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4335	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4336	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4337	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4338	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4339	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4340	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4341	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4342	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4343	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4344	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4345	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4346	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4347	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4348	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4349	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4350	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4803	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4804	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4805	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4806	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4808	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4809	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4810	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4811	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4812	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4813	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4814	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4815	NCB31HK-152X	CAPACITOR	0.0015μF,50V
C4819	NCB31CK-104X	CAPACITOR	0.1μF,16V
C4851	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4852	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4853	NBE21AM-335X	T CAPACITOR	3.3μF,10V
C4854	NBE21AM-106X	T CAPACITOR	10μF,10V
C4855	NCB31CK-104X	CAPACITOR	0.1μF,16V
C4858	NDCA1HJ-330W	CAPACITOR	33pF,50V
C4859	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4860	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4861	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4862	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4864	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4865	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5501	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5503	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5504	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5505	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5506	NBE40JM-476X	T CAPACITOR	47μF,6.3V
C5507	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5508	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5509	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5510	NBP21VM-105X	T CAPACITOR	1μF,35V
C5511	NBP21DM-475X	T CAPACITOR	4.7μF,20V
C5512	NBE21AM-106X	T CAPACITOR	10μF,10V
C5513	NCB31CK-104X	CAPACITOR	0.1μF,16V
C5514	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5515	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5516	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5517	NCB31CK-104X	CAPACITOR	0.1μF,16V
C5518	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5519	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6001	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6004	NCB21CK-105X	CAPACITOR	1μF,16V
C6005	NDCA1HJ-101W	CAPACITOR	100pF,50V
C6101	NCB21CK-105X	CAPACITOR	1μF,16V
C6102	NEA71CM-106X	E CAPACITOR	10μF,16V
C6103	NCB21CK-105X	CAPACITOR	1μF,16V
C6105	NCB21CK-105X	CAPACITOR	1μF,16V
C6106	NCB21CK-105X	CAPACITOR	1μF,16V
C6107	NCB21CK-105X	CAPACITOR	1μF,16V
C6108	NCB21CK-105X	CAPACITOR	1μF,16V
C6109	NCB21CK-105X	CAPACITOR	1μF,16V
C6110	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6111	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6112	NCBA1AK-333W	CAPACITOR	0.033μF,10V
C6113	NCBA1HK-561W	CAPACITOR	560pF,50V
C6114	NCBA1HK-272W	CAPACITOR	0.0027μF,50V
C6115	NCBA1HK-561W	CAPACITOR	560pF,50V
C6116	NCBA1CK-103W	CAPACITOR	0.01μF,16V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C6117	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6118	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6119	NDCA1HJ-101W	CAPACITOR	100pF,50V
C6120	NCB11CK-105X	CAPACITOR	1μF,16V
C6121	NCB31CK-104X	CAPACITOR	0.1μF,16V
C6122	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C6123	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6124	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6125	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6126	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6127	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C6128	NCB21CK-105X	CAPACITOR	1μF,16V
C6129	NCBA1HK-561W	CAPACITOR	560pF,50V
C6130	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6131	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6132	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6133	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6134	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6201	NCB21CK-105X	CAPACITOR	1μF,16V
C6202	NCB10JK-106X	CAPACITOR	10μF,6.3V
C6203	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C6204	NCBA1HK-561W	CAPACITOR	560pF,50V
C6205	NCB21CK-105X	CAPACITOR	1μF,16V
C6206	NCB21CK-105X	CAPACITOR	1μF,16V
C6207	NCB10JK-106X	CAPACITOR	10μF,6.3V
C6208	NCBA1EK-472W	CAPACITOR	0.0047μF,25V
C6209	NCB21CK-105X	CAPACITOR	1μF,16V
C6210	NCB10JK-106X	CAPACITOR	10μF,6.3V
C6211	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C6212	NCB21CK-105X	CAPACITOR	1μF,16V
C6213	NCB11EK-105X	CAPACITOR	1μF,25V
C6214	NCB21CK-105X	CAPACITOR	1μF,16V
C6215	NCB21CK-105X	CAPACITOR	1μF,16V
C6216	NCBA1AK-683W	CAPACITOR	0.068μF,10V
C6217	NCB21CK-105X	CAPACITOR	1μF,16V
C6218	NCB21CK-105X	CAPACITOR	1μF,16V
C6219	NCB21CK-224X	CAPACITOR	0.22μF,16V
C6220	NCB21CK-105X	CAPACITOR	1μF,16V
C6221	NCB11EK-105X	CAPACITOR	1μF,25V
C6222	NCB11EK-105X	CAPACITOR	1μF,25V
C6224	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C6225	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6226	NCB21CK-105X	CAPACITOR	1μF,16V
C6227	NCB11EK-105X	CAPACITOR	1μF,25V
C6228	NCB11EK-105X	CAPACITOR	1μF,25V
C6230	NCB21CK-105X	CAPACITOR	1μF,16V
C6231	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6701	NCB21CK-105X	CAPACITOR	1μF,16V
C6703	NCB11CK-105X	CAPACITOR	1μF,16V
L1001	NQL315K-100X	COIL	10μH
L1002	NQL315K-100X	COIL	10μH
L1401	NQR0006-001X	FERRITE BEAD	
L1402	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
L2001	NQL315K-100X	COIL	10μH
L2002	NQL38DK-220X	COIL	22μH
L3001	NQR0006-001X	FERRITE BEAD	
L3002	NQR0129-002X	FERRITE BEAD	
L3003	NQR0129-002X	FERRITE BEAD	
L3004	NQR0006-001X	FERRITE BEAD	
L3005	NQR0129-002X	FERRITE BEAD	
L3006	NQR0006-001X	FERRITE BEAD	
L3007	NQL085J-2R2X	COIL	2.2μH
L3008	NQL085J-120X	COIL	12μH
L3009	NQL085J-120X	COIL	12μH

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
L3010	NQR0384-003X	COIL	
L3011	NQR0384-003X	COIL	
L3012	NQR0006-001X	FERRITE BEAD	
L3013	NQR0006-001X	FERRITE BEAD	
L3501	NQR0129-002X	FERRITE BEAD	
L3502	NQL302N-100X	COIL	10μH
L3503	NQR0006-001X	FERRITE BEAD	
L3504	NQR0006-001X	FERRITE BEAD	
L3505	NQR0006-001X	FERRITE BEAD	
L3701	NQL38DK-100X	COIL	10μH
L4201	NQR0129-002X	FERRITE BEAD	
L4301	NQR0129-002X	FERRITE BEAD	
L4302	NQR0129-002X	FERRITE BEAD	
L4303	NQL38DK-100X	COIL	10μH
L4304	NQL38DK-100X	COIL	10μH
L4305	NQR0129-002X	FERRITE BEAD	
L4306	NQR0129-002X	FERRITE BEAD	
L4307	NQL38DK-100X	COIL	10μH
L4802	NQL302N-100X	COIL	10μH
L4851	NQR0129-002X	FERRITE BEAD	
L4852	NQL38DK-100X	COIL	10μH
L4853	NQL38DK-100X	COIL	10μH
L5501	NQL38DK-100X	COIL	10μH
L5502	NQR0129-002X	FERRITE BEAD	
L5503	NQR0129-002X	FERRITE BEAD	
L5504	NQR0129-002X	FERRITE BEAD	
L5505	NQL38DK-100X	COIL	10μH
L5506	NQL38DK-100X	COIL	10μH
L6101	NQLZ011-4R7X	COIL	4.7μH
L6102	NQLZ011-4R7X	COIL	4.7μH
L6201	NQLZ011-390X	COIL	39μH
L6202	NQLZ011-390X	COIL	39μH
L6203	NQLZ011-390X	COIL	39μH
L6204	NQL144K-220X	COIL	22μH
L6205	NQL35BK-100X	COIL	10μH
L6206	NQLZ011-470X	COIL	47μH
L6207	NQLZ011-470X	COIL	47μH
L6208	NQLZ011-221X	COIL	220μH
L6209	NQL144K-221X	COIL	220μH
L6210	NQL144K-220X	COIL	22μH
L6701	NQLZ007-100X	COIL	10μH
X1001	NAX0424-001X	CRYSTAL RESONATOR,A	
	NAX0474-001X	C OSCILLATOR,B,C	
X1002	NAX0325-001X	CRYSTAL RESONATOR	
X5501	NAX0356-001X	CXO	
WR1	WJT0045-001A	E-CARD WIRE,CN103-JACK CN502	
WR2	WJJ0206-001A	E-SI C WIRE C-C,CN104-REAR UNIT	
J101	NNZ0041-001X	D CONNECTOR	
CN101	QGF0508F1-40X	FPC CONNECTOR	
CN102	QGA1002F1-09X	CONNECTOR	
CN103	QGF0505F2-14X	FPC CONNECTOR	
CN104	QGA1002C1-10X	CONNECTOR	
CN105	QGB0801K2-20X	CONNECTOR	
CN106	QGA1201F2-03X	CONNECTOR	
CN107	QGF0507F3-20X	FFC/FPC CONNECTOR	
CN108	QGF0507F3-24X	FFC/FPC CONNECTOR	
CN109	QGF0507F3-15X	FFC/FPC CONNECTOR	
CN110	QGF0505F1-08X	FPC CONNECTOR	
CN111	QGF0503C1-06V	FFC/FPC CONNECTOR	
CN112	QGF0505F2-18X	FPC CONNECTOR	
CN113	QGF0508F1-34X	FPC CONNECTOR	
⚠ F6101	NMFZ007-2R0X-K	FUSE	T2.0A
OT1	LY43017-001A	SHIELD SHEET	
OT2	LY30029-0F4A	SPACER(A)	
SD1	LY32080-001A	SHIELD CASE	

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MONITOR BOARD ASSEMBLY <02>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
PW1	YB10324I1-03	MONITOR BOARD ASSY,A,B	
	YB10324M1-03	MONITOR BOARD ASSY,C	
IC7101	MM1385EN	IC	
IC7601	AN2540FHQ	IC	
IC7602	BA15532F	IC	
IC7603	X25057M8-2.7-X	IC	
IC7604	SN74LV08APW	IC	
Q7101	2SA1774/QR/-X	TRANSISTOR,A,B	
Q7601	2SC4617/QR/-X	TRANSISTOR	
Q7602	2SA1774/QR/-X	TRANSISTOR	
Q7603	2SC4617/QR/-X	TRANSISTOR	
Q7604	2SA1774/QR/-X	TRANSISTOR	
Q7605	DTA144EE	TRANSISTOR,C	
	or RN2104	TRANSISTOR,C	
	or UN9113J	TRANSISTOR,C	
Q7606	DTC144EE	TRANSISTOR,C	
	or RN1104	TRANSISTOR,C	
	or UN9213J	TRANSISTOR,C	
Q7607	UMZ1N	PAIR TRANSISTOR,C	
Q7608	DTC144EE	TRANSISTOR	
	or RN1104	TRANSISTOR	
	or UN9213J	TRANSISTOR	
Q7609	DTC144EE	TRANSISTOR	
	or RN1104	TRANSISTOR	
	or UN9213J	TRANSISTOR	
Q7610	DTA144EE	TRANSISTOR	
	or RN2104	TRANSISTOR	
	or UN9113J	TRANSISTOR	
D1	SML-110LT-X	LE DIODE	
D7601	RB471E	SB DIODE	
R1	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R2	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R3	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R4	NRSA63J-152X	MG RESISTOR	1.5kΩ,1/16W
R5	NRSA63J-182X	MG RESISTOR	1.8kΩ,1/16W
R6	NRSA63J-272X	MG RESISTOR	2.7kΩ,1/16W
R7101	NRSA63J-562X	MG RESISTOR,A,B	5.6kΩ,1/16W
R7102	NRSA63J-562X	MG RESISTOR,A,B	5.6kΩ,1/16W
R7103	NRSA63J-103X	MG RESISTOR,A,B	10kΩ,1/16W
R7104	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R7110	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7111	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7112	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7113	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7114	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7115	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7601	NRVA63D-622X	CMF RESISTOR	6.2kΩ,1/16W
R7602	NRSA63J-153X	MG RESISTOR	15kΩ,1/16W
R7603	NRSA63J-683X	MG RESISTOR	68kΩ,1/16W
R7608	NRSA63J-153X	MG RESISTOR	15kΩ,1/16W
R7609	NRVA63D-223X	CMF RESISTOR	22kΩ,1/16W
R7610	NRVA63D-433X	CMF RESISTOR	43kΩ,1/16W
R7611	NRVA63D-821X	CMF RESISTOR	820Ω,1/16W
R7612	NRVA63D-223X	CMF RESISTOR,A,B	22kΩ,1/16W
	NRVA63D-682X	CMF RESISTOR,C	6.8kΩ,1/16W
R7613	NRVA63D-223X	CMF RESISTOR	22kΩ,1/16W
R7614	NRVA63D-223X	CMF RESISTOR	22kΩ,1/16W
R7615	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
R7616	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
R7617	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
R7618	NRSA02J-561X	MG RESISTOR	560Ω,1/10W
R7621	NRSA63J-0R0X	MG RESISTOR,A,B	0Ω,1/16W
R7622	NRSA63J-223X	MG RESISTOR,C	22kΩ,1/16W
R7623	NRSA63J-223X	MG RESISTOR,C	22kΩ,1/16W
R7624	NRVA63D-223X	CMF RESISTOR,C	22kΩ,1/16W
R7625	NRVA63D-223X	CMF RESISTOR,C	22kΩ,1/16W
R7626	NRVA63D-183X	CMF RESISTOR,C	18kΩ,1/16W
R7627	NRVA63D-334X	CMF RESISTOR,C	330kΩ,1/16W
R7628	NRSA63J-224X	MG RESISTOR,C	220kΩ,1/16W
R7629	NRSA63J-393X	MG RESISTOR,C	39kΩ,1/16W
R7630	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
R7631	NRSA63J-335X	MG RESISTOR	3.3MΩ,1/16W
R7633	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R7634	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R7640	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
R7641	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
R7642	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
R7643	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
R7644	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
R7645	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
R7646	NRSA63J-0R0X	MG RESISTOR,C	0Ω,1/16W
C1	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7101	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C7102	NCB31HK-103X	CAPACITOR	0.01μF,50V
C7103	NBE20JM-475X	T CAPACITOR,A,B	4.7μF,6.3V
C7601	NCB21CK-105X	CAPACITOR	1μF,16V
C7602	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7603	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7604	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7605	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7606	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7607	NBP41CM-106X	T CAPACITOR	10μF,16V
C7608	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7609	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7610	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7611	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7612	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7613	NCB11CK-225X	CAPACITOR	2.2μF,16V
C7614	NCB31HK-152X	CAPACITOR	0.0015μF,50V
C7615	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7616	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7617	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7618	NCB10JK-106X	CAPACITOR	10μF,6.3V
C7619	NCB10JK-106X	CAPACITOR	10μF,6.3V
C7620	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7621	NCB21CK-105X	CAPACITOR	1μF,16V
C7622	NCB21CK-105X	CAPACITOR	1μF,16V
C7623	NBE21AM-106X	T CAPACITOR	10μF,10V
C7624	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7626	NCB31CK-104X	CAPACITOR	0.1μF,16V
C7627	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C7628	NBP41EM-475X	T CAPACITOR	4.7μF,25V
C7629	NBP21CM-335X	T CAPACITOR	3.3μF,16V
C7630	NBP41EM-475X	T CAPACITOR	4.7μF,25V
C7631	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7632	NBP41EM-475X	T CAPACITOR	4.7μF,25V
C7633	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7634	NCB10JK-106X	CAPACITOR	10μF,6.3V
C7635	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7636	NCF31CZ-104X	CAPACITOR,C	0.1μF,16V
C7637	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7638	NCB21AK-225X	CAPACITOR,C	2.2μF,10V
C7639	NBE21AM-106X	T CAPACITOR,C	10μF,10V
C7640	NCB31EK-103X	CAPACITOR	0.01μF,25V

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	C7642	NCF31CZ-104X	CAPACITOR	0.1μF,16V
	L7601	NQL315K-100X	COIL	10μH
	L7602	NQL315K-100X	COIL	10μH
	L7604	NQL315K-100X	COIL	10μH
	L7605	NQL315K-100X	COIL,A,B	10μH
	L7606	NQL315K-100X	COIL,C	10μH
	L7607	NQL315K-100X	COIL	10μH
	SW1	NSW0092-001X	SLIDE SWITCH,LIGHT	
	SW2	NSW0008-001X	TACT SWITCH,STOP	
	SW3	NSW0008-001X	TACT SWITCH,REW	
	SW4	NSW0008-001X	TACT SWITCH,FF	
	SW5	NSW0008-001X	TACT SWITCH,PLAY/PAUSE	
	SW7601	NSW0105-001X	DETECT SWITCH,OPEN	
⚠	BT1	QAB0025-001	LI BATTERY	
	CN761	QGF0508F1-40X	FPC CONNECTOR	
	CN763	QGF0507F3-20X	FFC/FPC CONNECTOR	
	CN764	QGF0305F1-33X	FPC CONNECTOR	
	CN765	QGA1201F2-02X	CONNECTOR	
	OT1	LY43043-001B	SHIELD SHEET	
	OT2	LY43119-001A	SHIELD SHEET,A,B	

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LCD BL BOARD ASSEMBLY <03>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PW2	YB10324A2-02	LCD BL BOARD ASSY,C	
		YB10324B2-02	LCD BL BOARD ASSY,A,B	
	IC751	MIP805	IC,C	
	Q7501	2SC3647/ST/-X	POW TRANSISTOR	
	Q7502	2SC3647/ST/-X	POW TRANSISTOR	
	Q7503	DTA144EE	TRANSISTOR	
		or RN2104	TRANSISTOR	
		or UN9113J	TRANSISTOR	
	Q7504	2SC4617/QR/-X	TRANSISTOR	
	D751	1SS376	DIODE,C	
	R751	NRSA63J-104X	MG RESISTOR,C	100kΩ,1/16W
	R7501	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R7502	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R7503	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R7506	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
	R7507	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
	C751	NBE20JM-106X	T CAPACITOR,C	10μF,6.3V
	C752	NBE20JM-106X	T CAPACITOR,C	10μF,6.3V
	C753	NCB31HK-222X	CAPACITOR,C	0.0022μF,50V
	C754	NCB31HK-222X	CAPACITOR,C	0.0022μF,50V
	C7501	NCZ1016-120X	CAPACITOR	12pF,2kV
	C7503	NFV41HJ-223X	MPPS CAPACITOR	0.022μF,50V
	C7504	NCB31EK-103X	CAPACITOR	0.01μF,25V
	C7505	NBE20JM-226X	T CAPACITOR	22μF,6.3V
	L751	NQLZ011-681X	COIL,C	680μH
	L752	NQL315K-100X	COIL,C	10μH
	L7501	NQLZ010-680X	COIL	68μH
	L7502	NQLZ010-220X	COIL	22μH
	T7501	NQS0048-001X	SW TRANSF	
	CN751	QGF0506F2-32X	FPC CONNECTOR	
	CN752	QGF0505F1-24X	FPC CONNECTOR	
	CN753	QGA5002F1-02X	CONNECTOR	
	CN754	QGF0505F2-06X	FPC CONNECTOR,C	
⚠	F751	NMFZ007-R20X-K	FUSE,C	T0.2A
⚠	F7501	NMFZ009-R375XJ1	FUSE	T0.37A
	OT1	LY41726-001A	PLATE(EARTH)	

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CCD BOARD ASSEMBLY <04>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PW	YB10316A-01	CCD BOARD ASSY	
	Q5001	2SC3931/CD/-X	TRANSISTOR	
	R5001	NRSA02J-472X	MG RESISTOR	4.7kΩ,1/10W
	R5002	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
	R5003	NRSA02J-104X	MG RESISTOR	100kΩ,1/10W
	R5004	NRS181J-0R0X	MG RESISTOR	0Ω,1/8W
	R5006	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
	R5007	NRS181J-0R0X	MG RESISTOR	0Ω,1/8W
	C5001	NCB21CK-104X	CAPACITOR	0.1μF,16V
	C5002	NBP41DM-106X	T CAPACITOR	10μF,20V
	C5003	NCB21CK-104X	CAPACITOR	0.1μF,16V
	C5004	NBE21AM-106X	T CAPACITOR	10μF,10V
	C5005	NCB11EK-104X	CAPACITOR	0.1μF,25V
	C5006	NCB21CK-104X	CAPACITOR	0.1μF,16V
	C5007	NCB21HK-222X	CAPACITOR	0.0022μF,50V
	C5011	NCB21CK-105X	CAPACITOR	1μF,16V
	L5001	NQL315K-100X	COIL	10μH

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JUNCTION BOARD ASSEMBLY <05>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PW2	YB10314A2-01	JUNCTION BOARD ASSY	
	D571	SML-010MT-X	LE DIODE	
	SW571	NSW0120-002X	PUSH SWITCH	
	CN571	QGF0508F1-34X	FPC CONNECTOR	
	CN572	QGF0507F3-15X	FFC/FPC CONNECTOR	
	CN573	QGF0505F2-11X	FPC CONNECTOR	
	CN574	QGF0505F2-06X	FPC CONNECTOR	

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JACK BOARD ASSEMBLY <06>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PW1	YB10314A1-01	JACK BOARD ASSY,A	
		YB10314A1-02	JACK BOARD ASSY,B,C	
	IC501	BA10358F-XE	IC	
	IC502	RS-171-X	IC(PHOTO SENSOR)	
	Q501	RPM-22PB	PHOTO TRANSISTOR	
	D501	MA8068	ZENER DIODE	
	D502	MA8068	ZENER DIODE	
	D504	MA8068	ZENER DIODE	
	D505	MA8068	ZENER DIODE	
	D506	EMZ6.8N	ZENER DIODE	
	D507	EMZ6.8N	ZENER DIODE	
	D508	EMZ6.8N	ZENER DIODE	
	R501	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
	R502	NRSA63J-684X	MG RESISTOR	680kΩ,1/16W
	R503	NRSA63J-182X	MG RESISTOR	1.8kΩ,1/16W
	R504	NRSA63J-222X	MG RESISTOR	2.2kΩ,1/16W
	R505	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R506	NRSA63J-824X	MG RESISTOR	820kΩ,1/16W
R507	NRSA63J-104X	MG RESISTOR	100kΩ,1/16W
R508	NRSA63J-683X	MG RESISTOR	68kΩ,1/16W
R509	NRSA63J-822X	MG RESISTOR	8.2kΩ,1/16W
R510	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R511	NRSA63J-302X	MG RESISTOR	3kΩ,1/16W
R512	NRSA63J-470X	MG RESISTOR	47Ω,1/16W
R513	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R514	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R515	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R516	NRSA63J-221X	MG RESISTOR	220Ω,1/16W
R517	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
R518	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R519	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
R520	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
R524	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R525	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R526	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R527	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
C501	NBE21AM-335X	T CAPACITOR	3.3μF,10V
C502	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C503	NCB31EK-153X	CAPACITOR	0.015μF,25V
C504	NCB31EK-153X	CAPACITOR	0.015μF,25V
C506	NBE21AM-106X	T CAPACITOR	10μF,10V
C509	NBE20JM-226X	T CAPACITOR	22μF,6.3V
C514	NCB31HK-103X	CAPACITOR	0.01μF,50V
C515	NCB31HK-103X	CAPACITOR	0.01μF,50V
L501	NQR0251-004X	FERRITE BEAD	
L502	NQR0251-004X	FERRITE BEAD	
L503	NQR0251-004X	FERRITE BEAD	
HD1	LY32086-001B	HOLDER(J.PWB)	
WR1	WJJ0207-002A	E-SI C WIRE C-C,CN501-MAIN CN102	
J501	QNS0078-001	3.5 JACK	
J502	PEMC1203	MINI JACK	
J503	QND0004-001	S JACK	
J504	QNS0152-001	2.5 JACK	
TL501	YQ43810-1-1	CONTACT(LIGHT)	
TL502	YQ43810-1-1	CONTACT(LIGHT)	
CN501	QGA1002F1-09X	CONNECTOR	
CN502	QGF0507F3-14X	FFC/FPC CONNECTOR	
OT1	LY30018-023A	SPECIAL SCREW,X4	
OT2	LY30017-023A	SPACER-B,X2,B,C	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION